

AM-FM STEREO RECEIVER
KR-596/796/896
 SERVICE MANUAL

KENWOOD

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 B51-5136-00 (K) 1683

Illustration is KR-596.

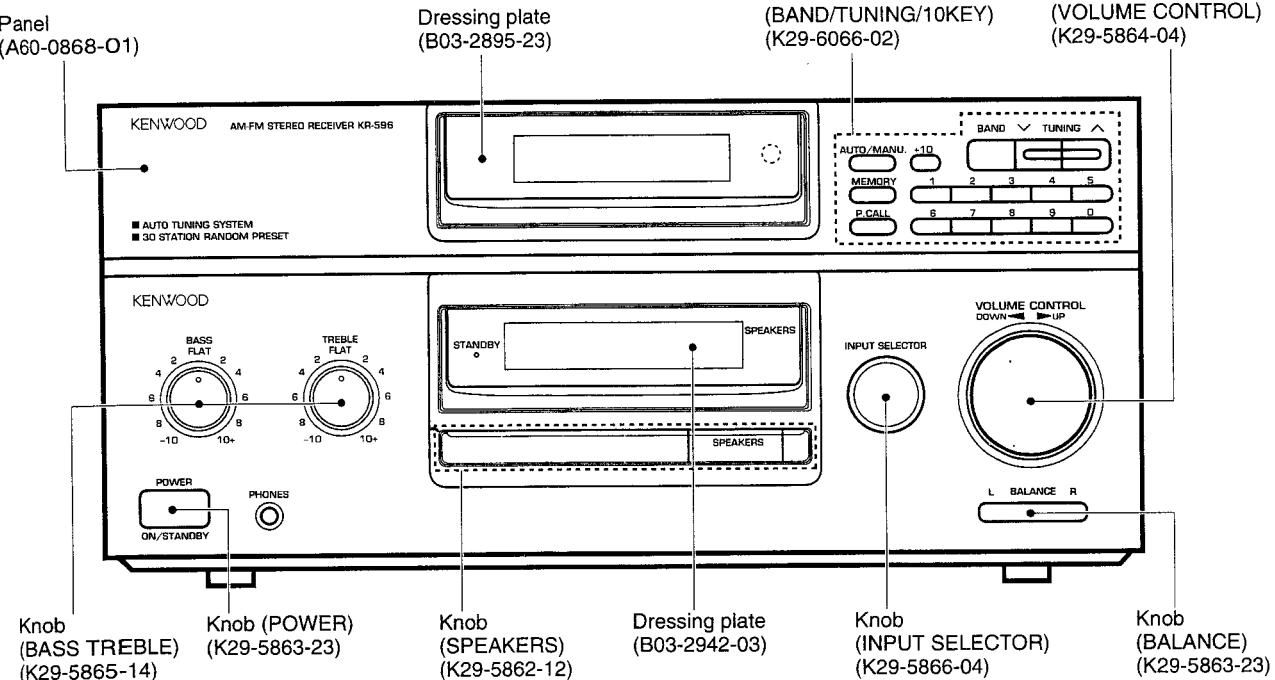
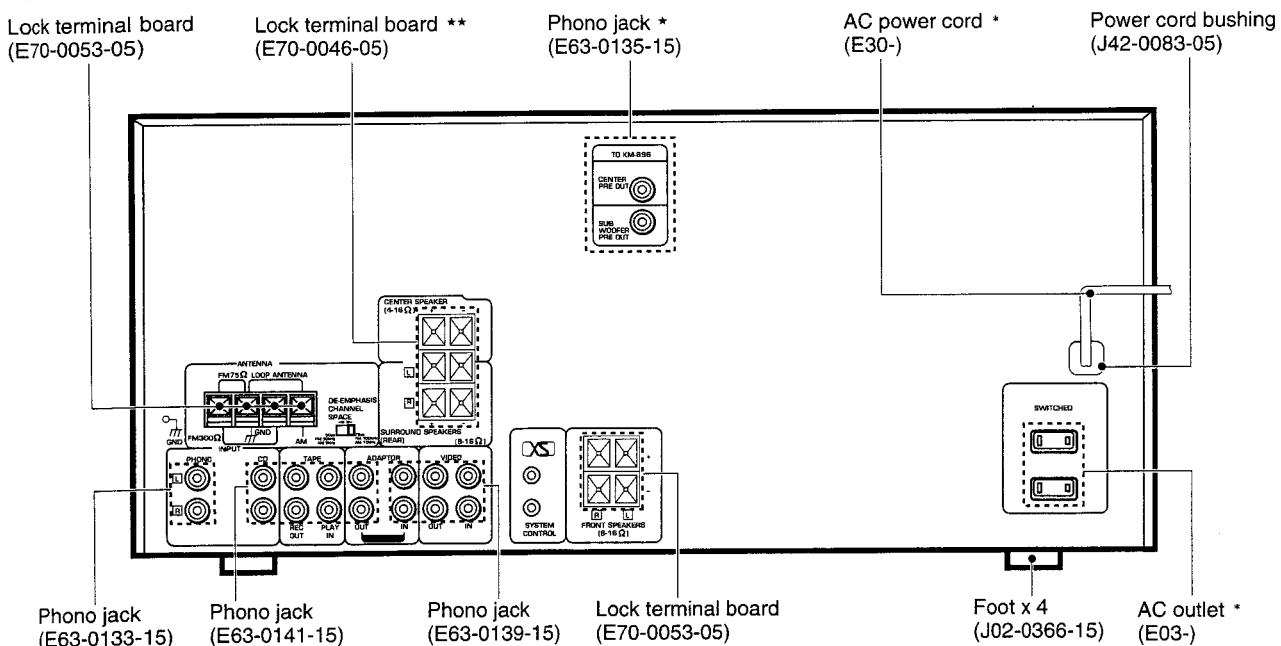


Illustration is KR-896.



*KR-796 is not available.

*and ** KR-596 is not available.

* Refer to parts list on page 29.

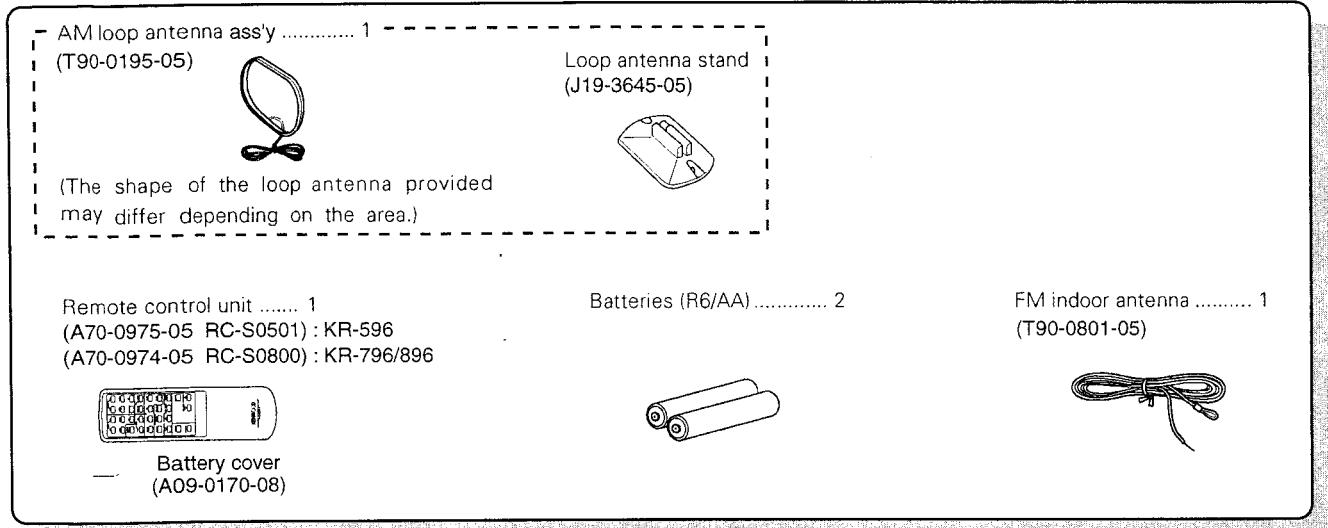
Refer to KR-594/794 service manual (B51-4844-00), if you want to know more information of CIRCUIT DESCRIPTION.

KR-596/796/896

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Accessories



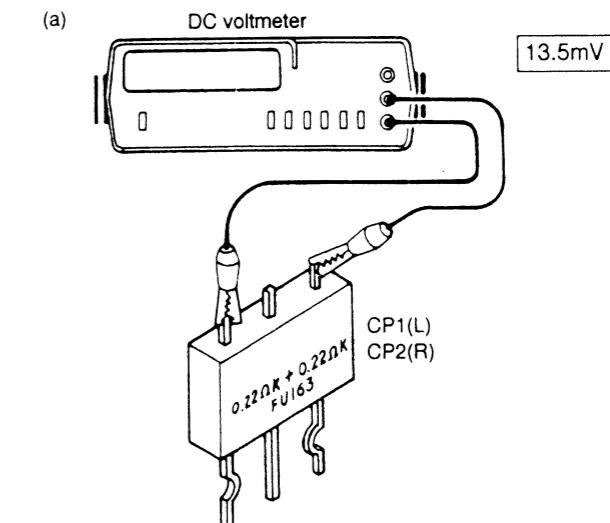
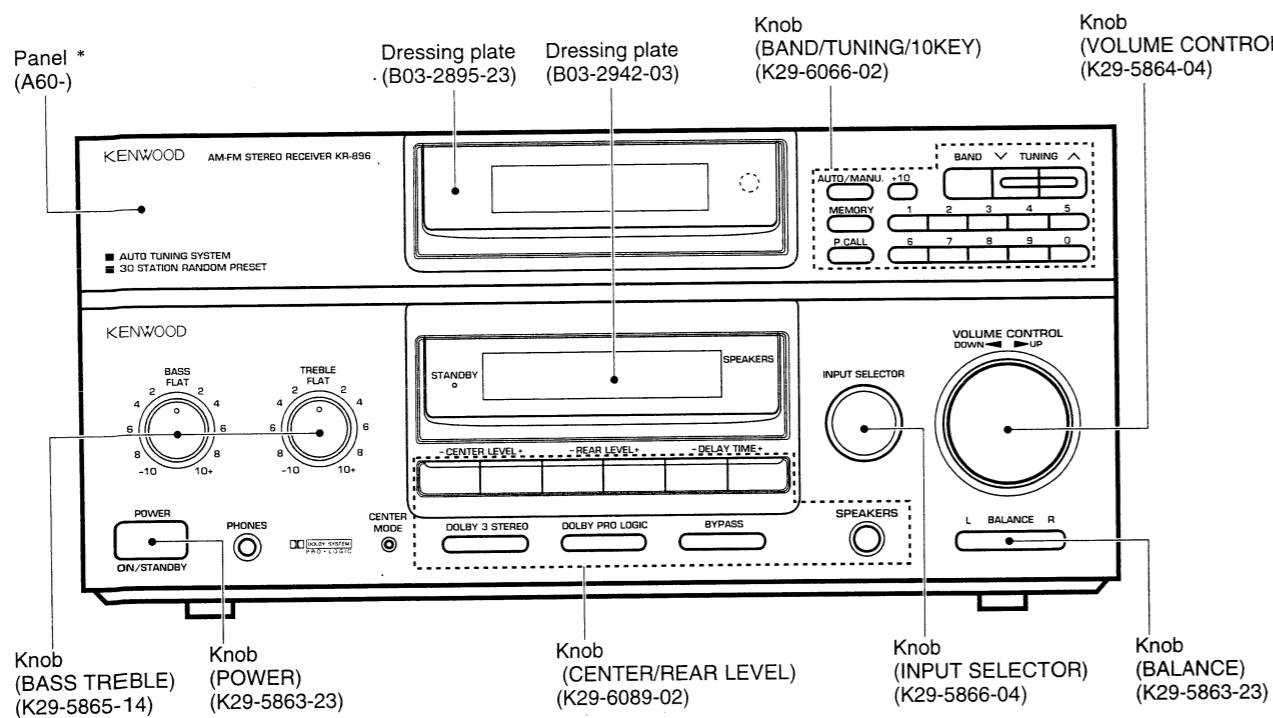
KR-596/796/896

KR-596/796/896

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: POWER : ON SELECTOR : PHONO							
1	IDLE CURRENT	-	Connect a DC voltmeter across CP1(L) CP2(R) (X09-)	Volume:0	VR1 (L) VR2 (R) (X09-)	13.5mV	(a)

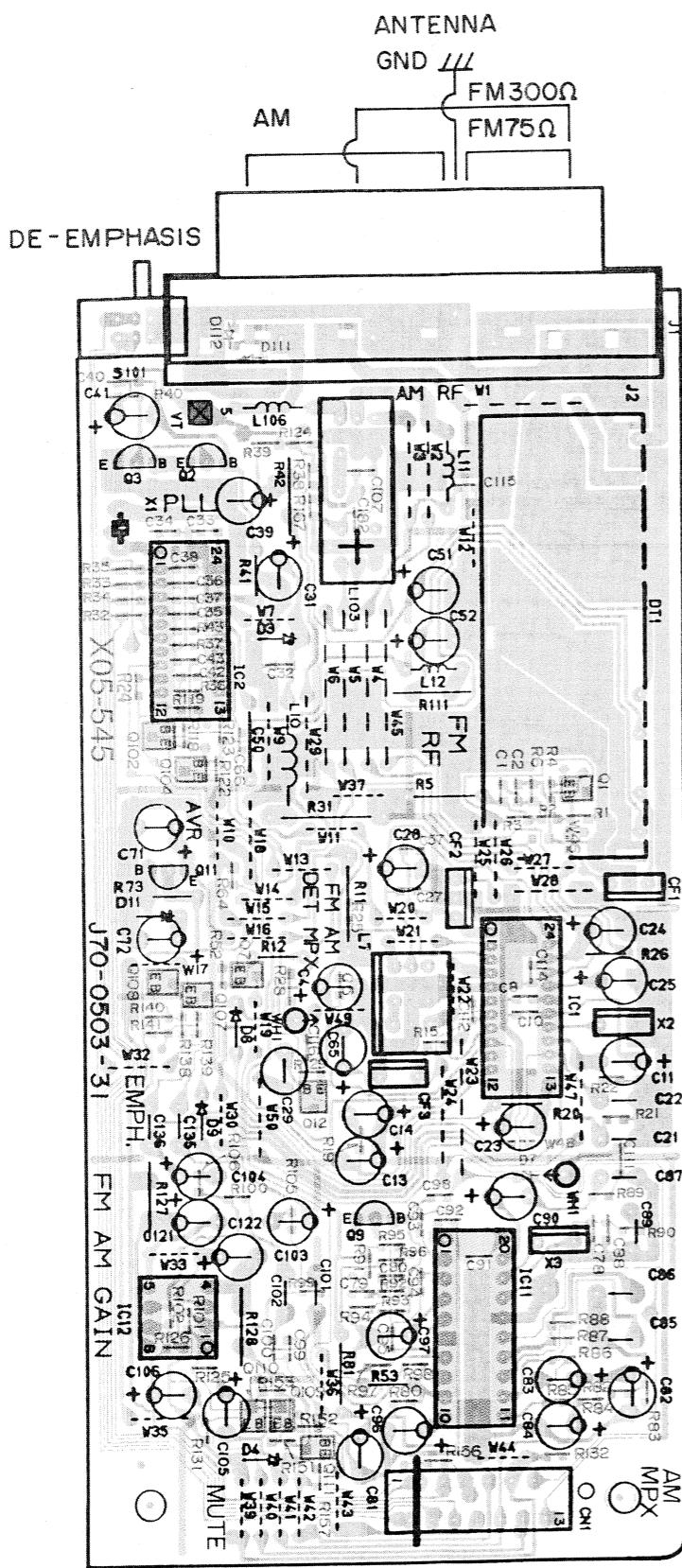
Illustration is KR-796/896.



* Refer to parts list on page 29.

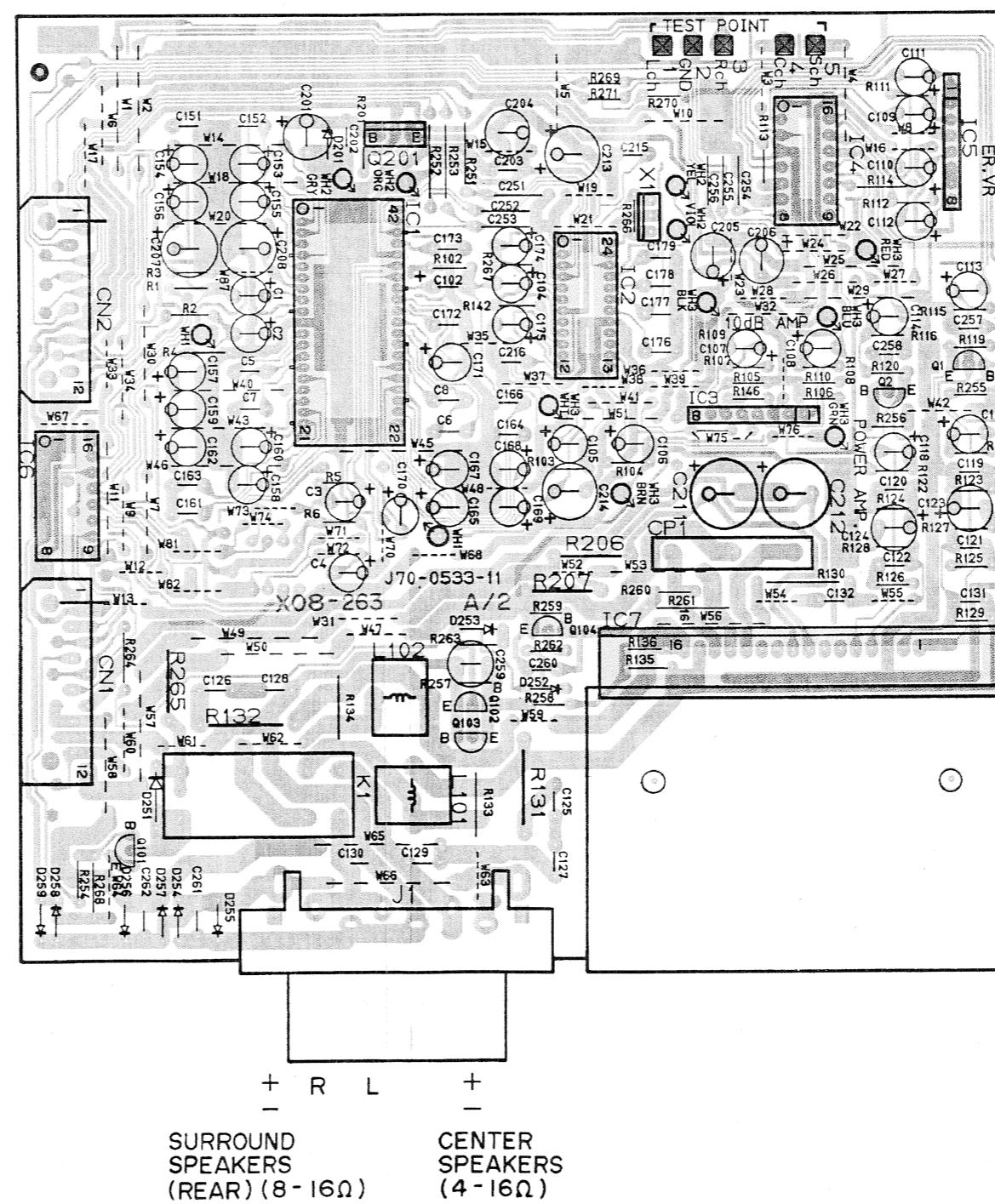
PC BOARD(Component side view)

TUNER UNIT : X05-4540-XX



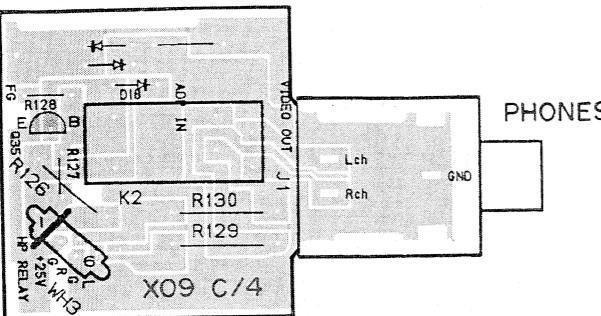
SURROUND UNIT : X08-2630-XX

FRONT

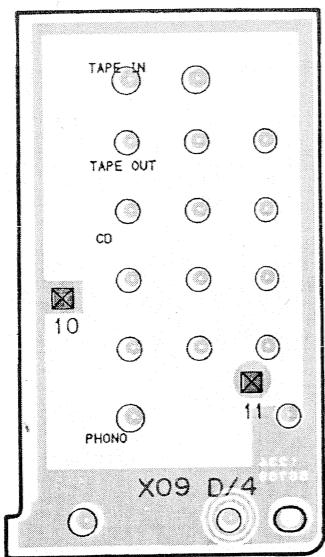


PC BOARD (Component side view)

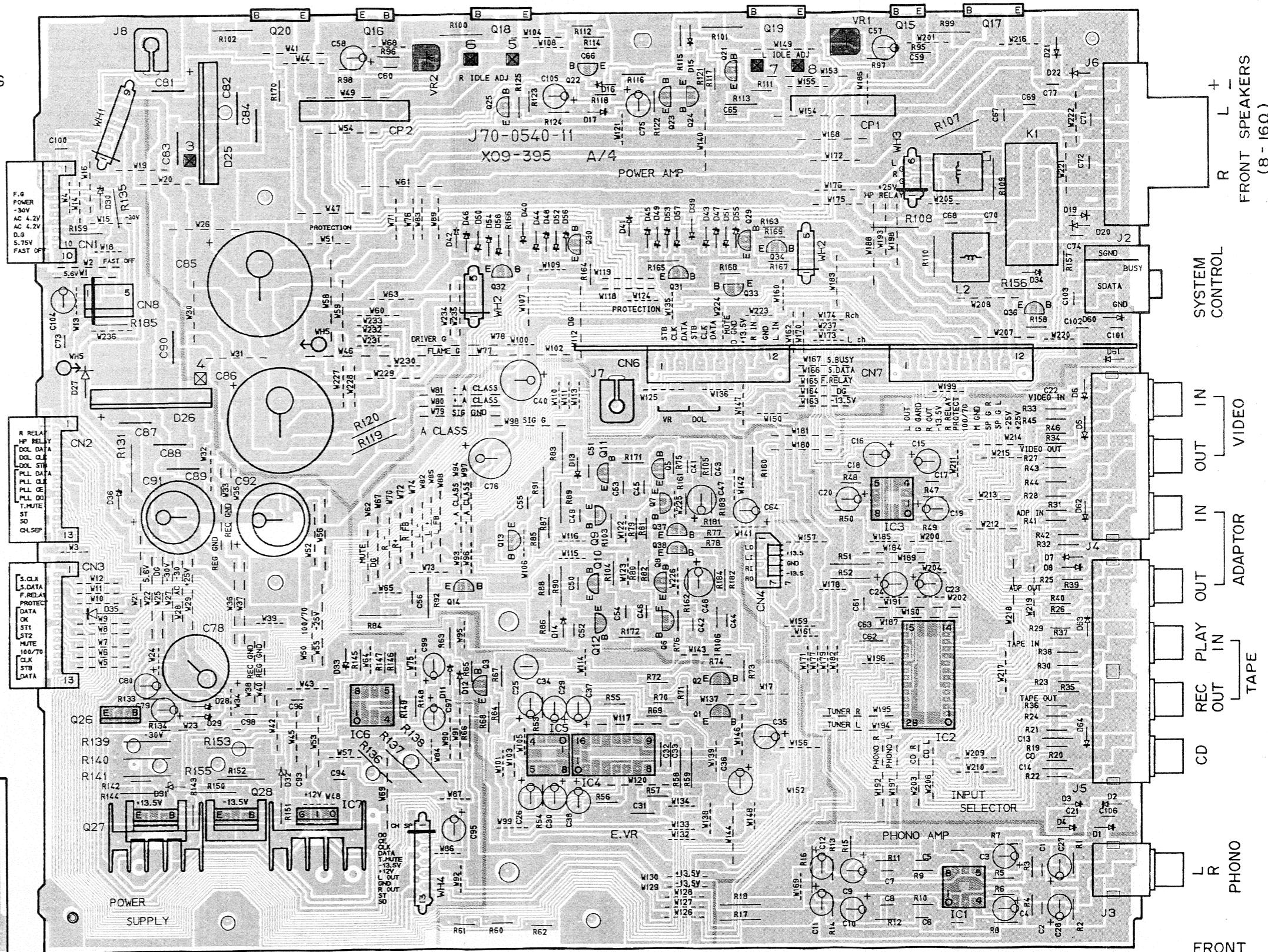
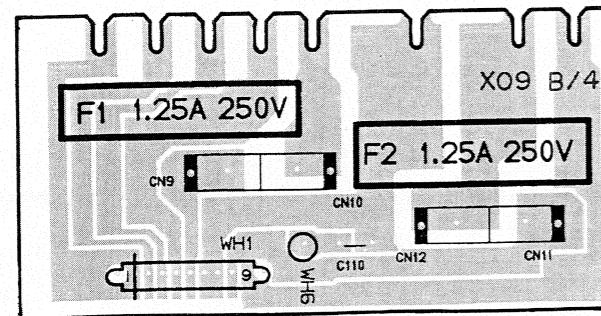
AUDIO UNIT : X09-3950-XX



PHONES



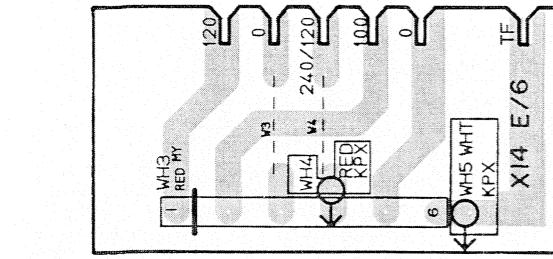
X09 D/4



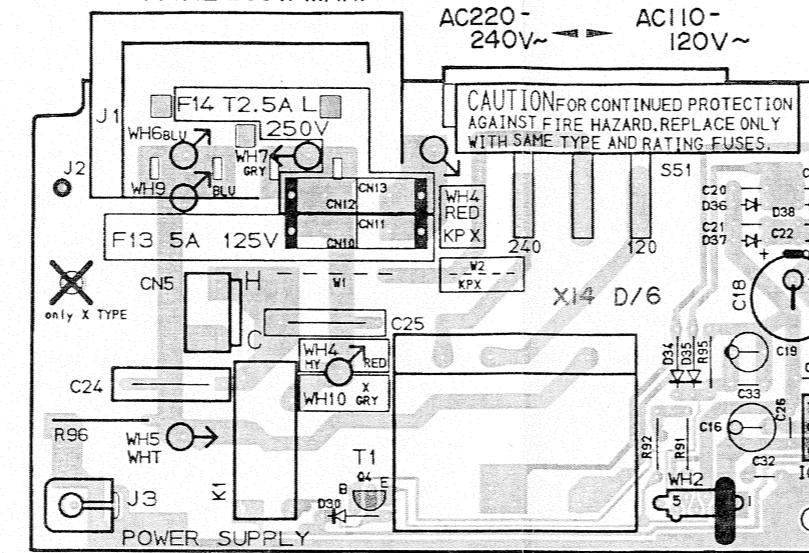
Refer to the schematic diagram for the value of resistors and capacitors.

PC BOARD (Component side view)

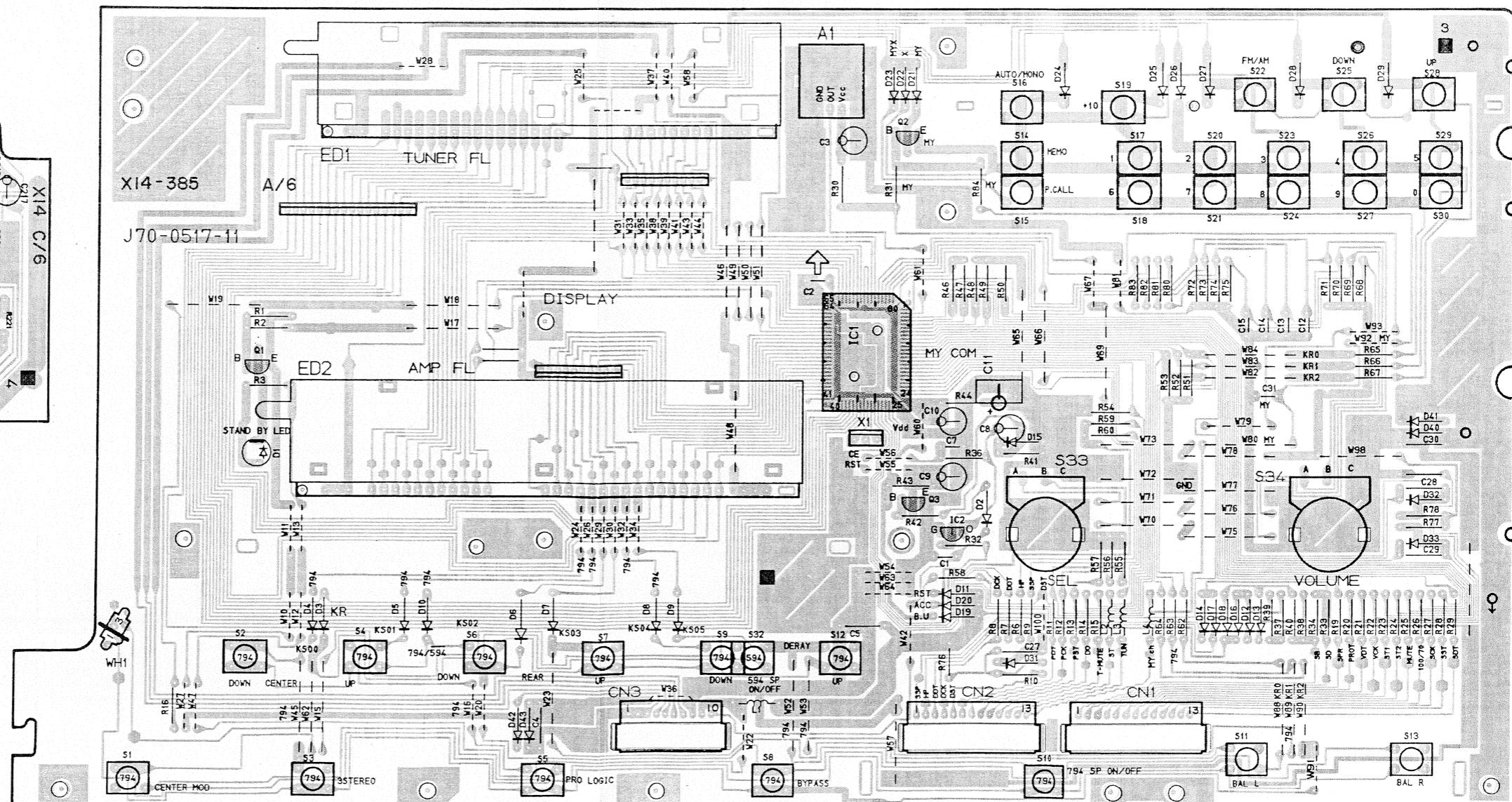
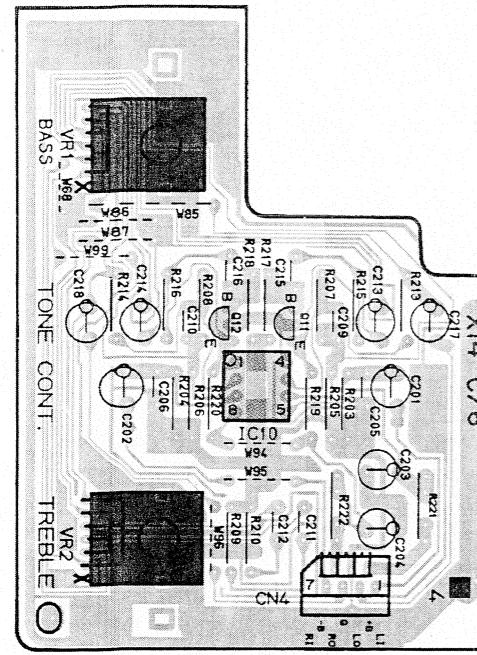
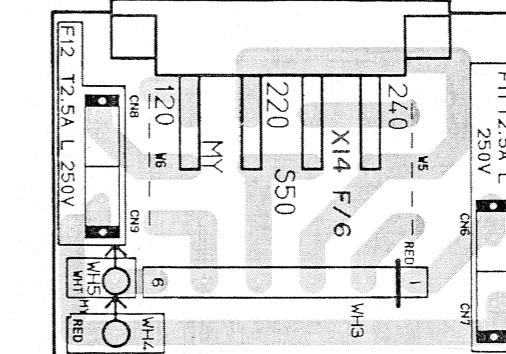
DISPLAY UNIT : X14-3850-XX



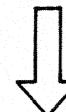
AC110-120V~/220V~/230-240V~
50/60Hz
SWITCHED
TOTAL 200W MAX.



AC220V~
AC230-240V~
AC110-120V~



FRONT



A

B

C

D

E

F

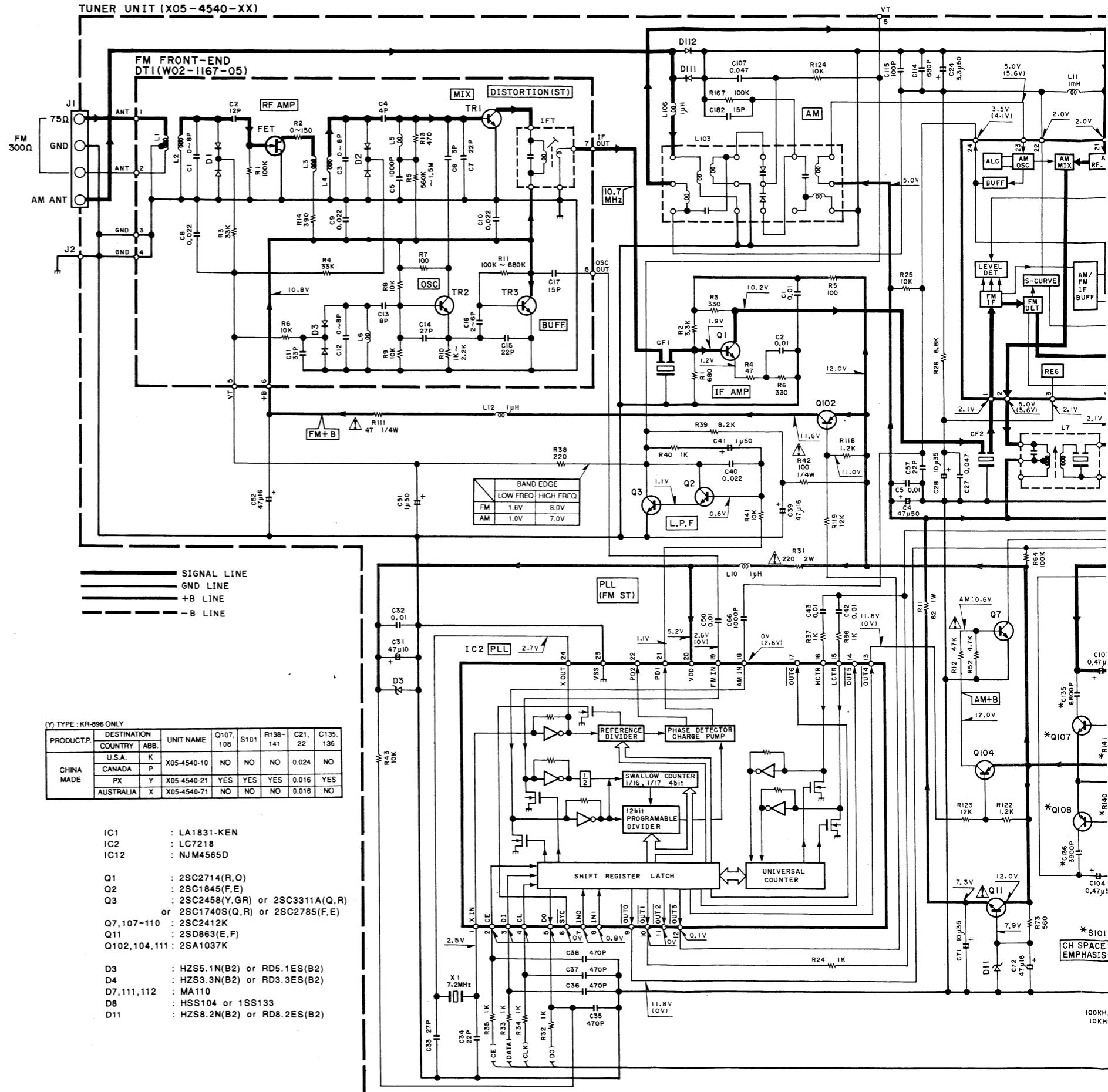
G

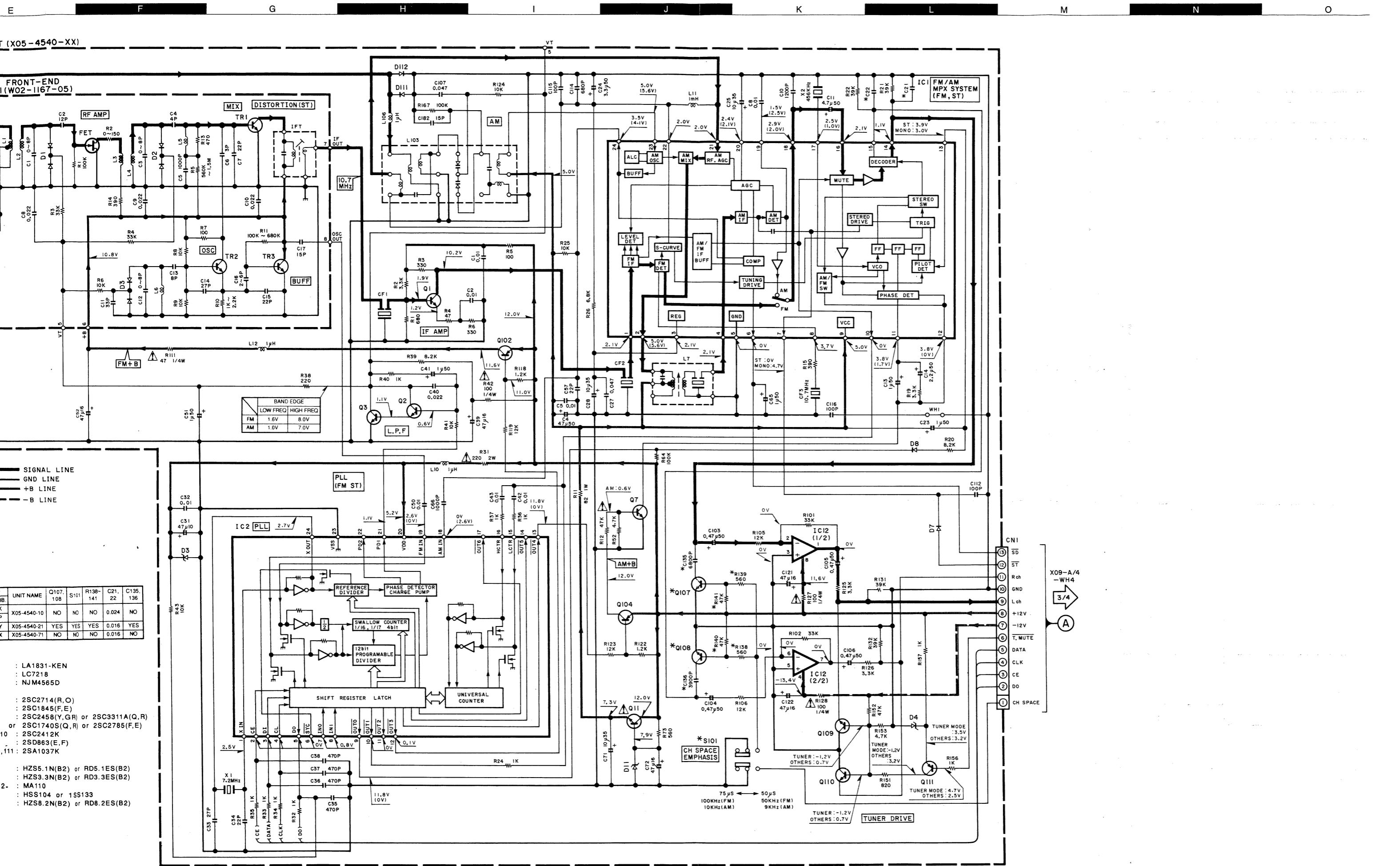
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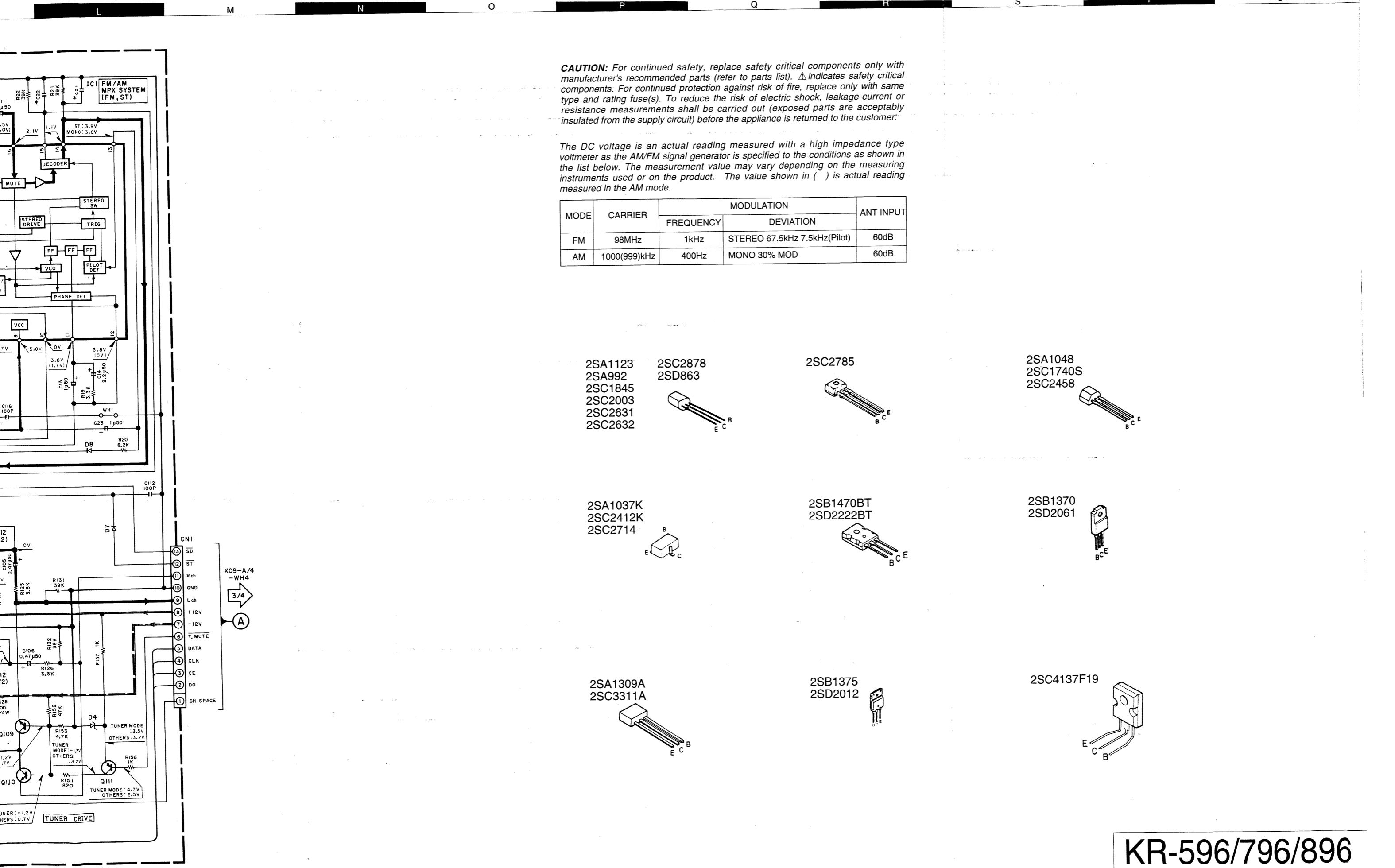
I

J

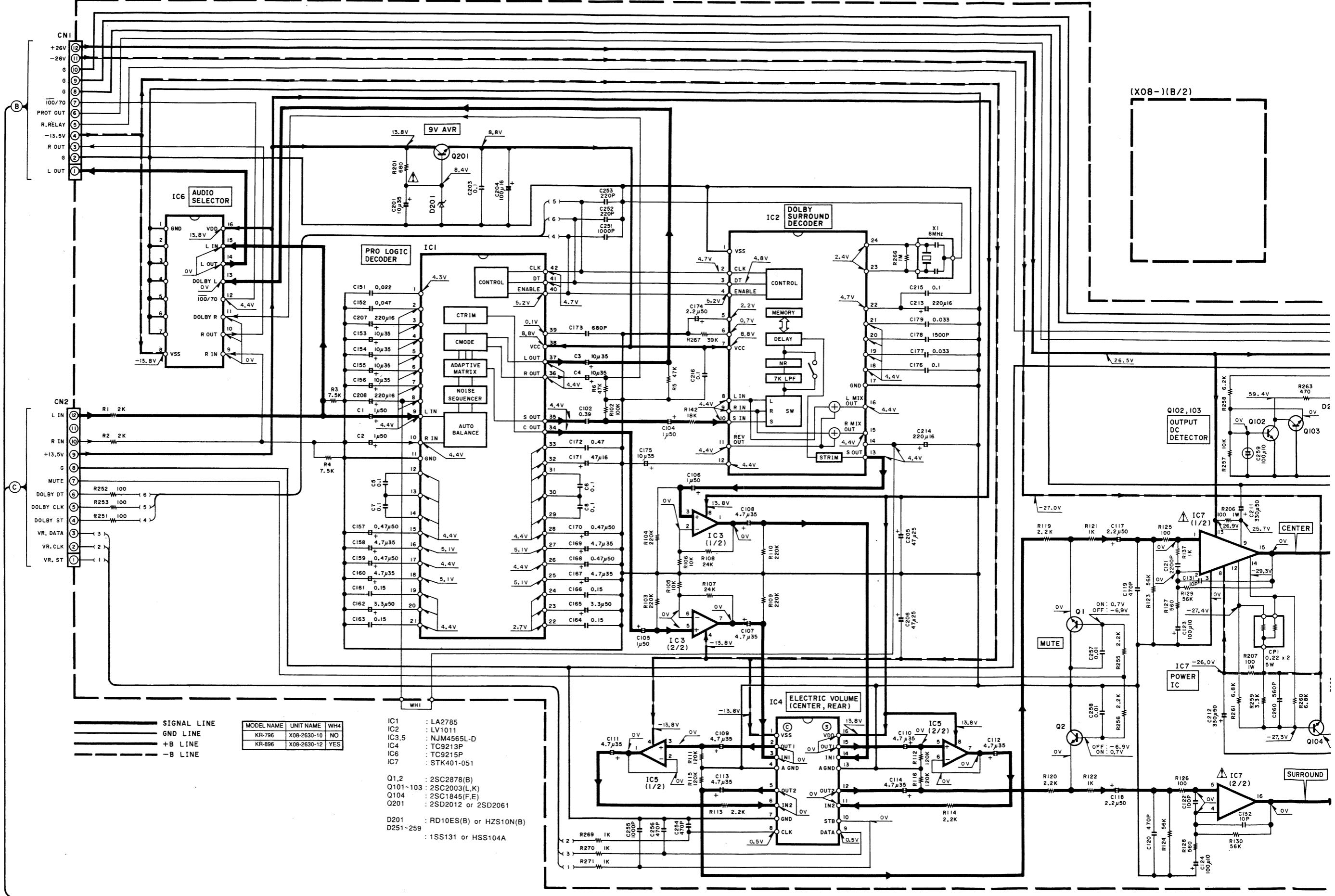
TUNER UNIT (X05-4540-XX)

1
2
3
4
5
6
7100KH:
10KH:





SURROUND UNIT (X08-2630-XX) (A/2) KR-796,896



AB

AC

A

10

1

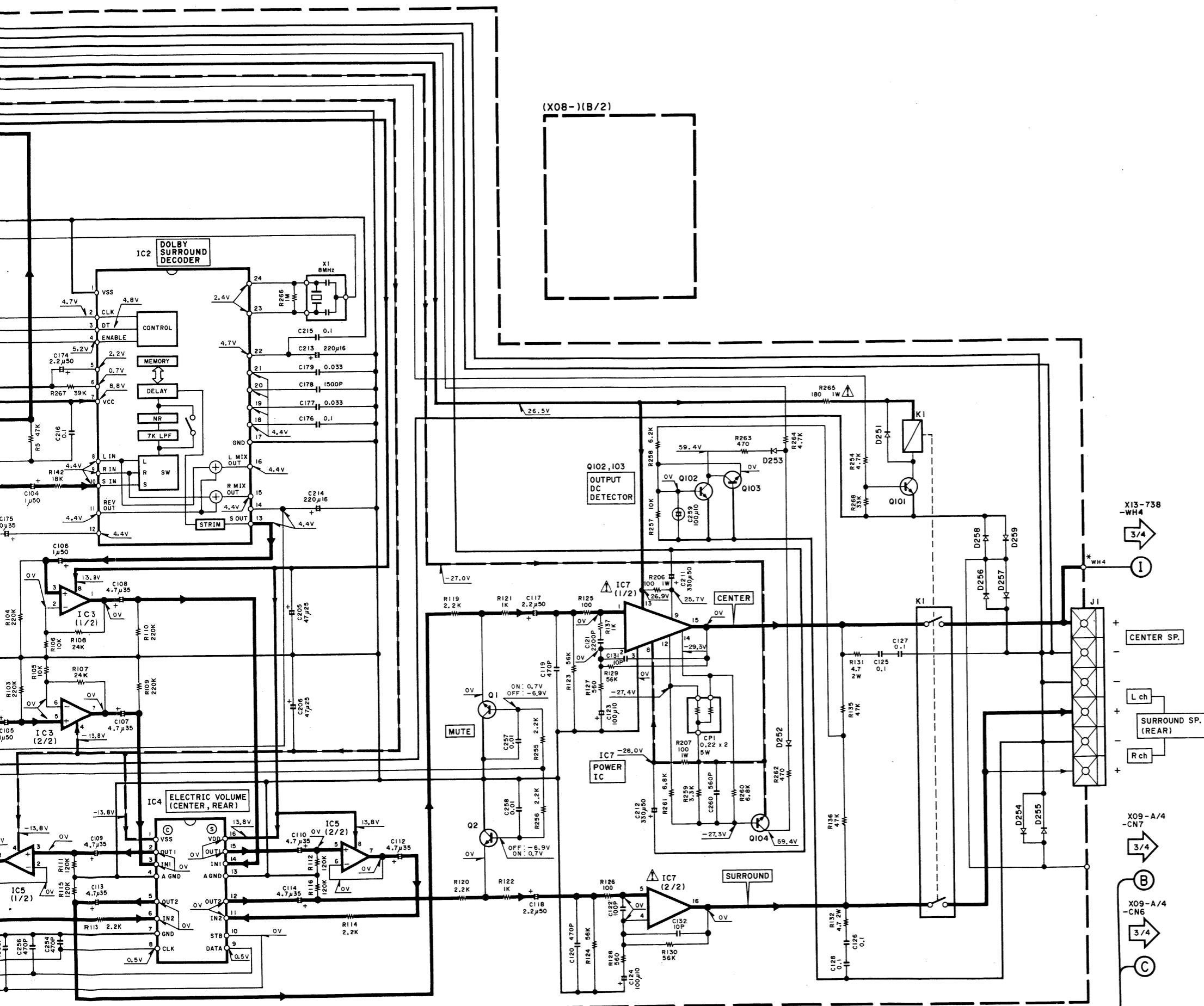
A

A

A

AJ

AK



CAUTION: Fc
manufacturer's
components. F
type and ratin.
resistance me
insulated from

The DC voltmeter with vary dependin DC voltage is i

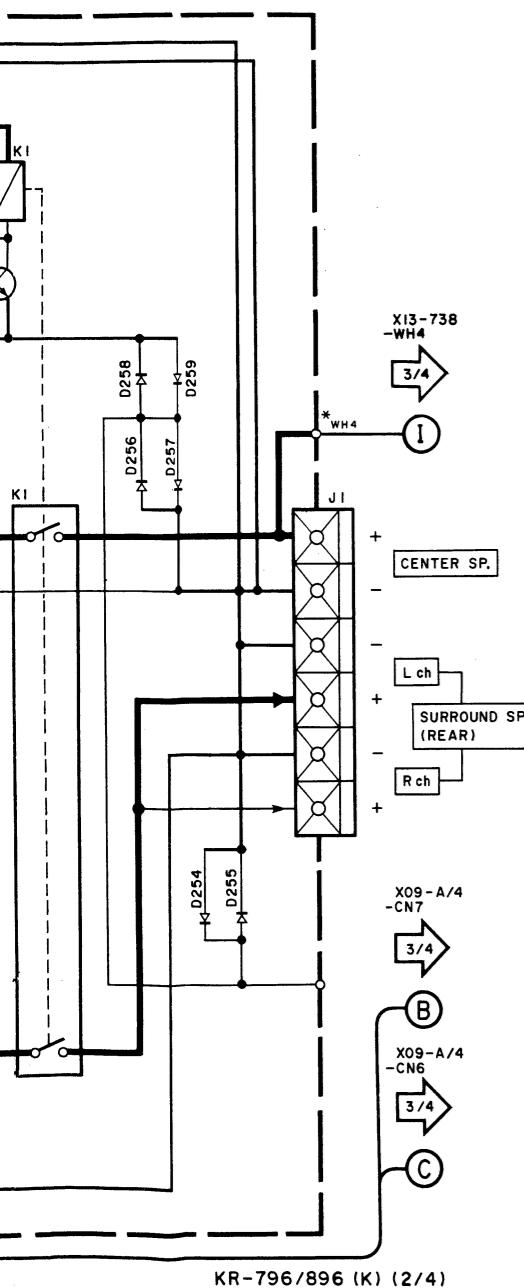
DOLBY and the
Corporation. A
Licensing Corp

NJM4565D
NJM4565D

LA2785

AN780575F
TA7812S

S-80740AL

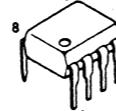


CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). \triangle indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

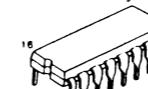
The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation. Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

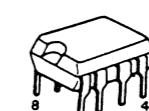
NJM4565D
NJM4565D-D



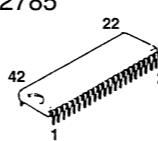
TC9213P
TC9215P



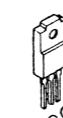
NJM4580D-D
XRA15218-DX



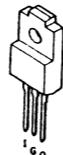
LA2785



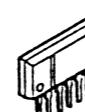
UPC7812AHF



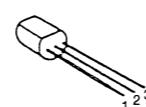
AN780575F
TA7812S



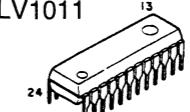
NJM4565L-D



S-80740AL



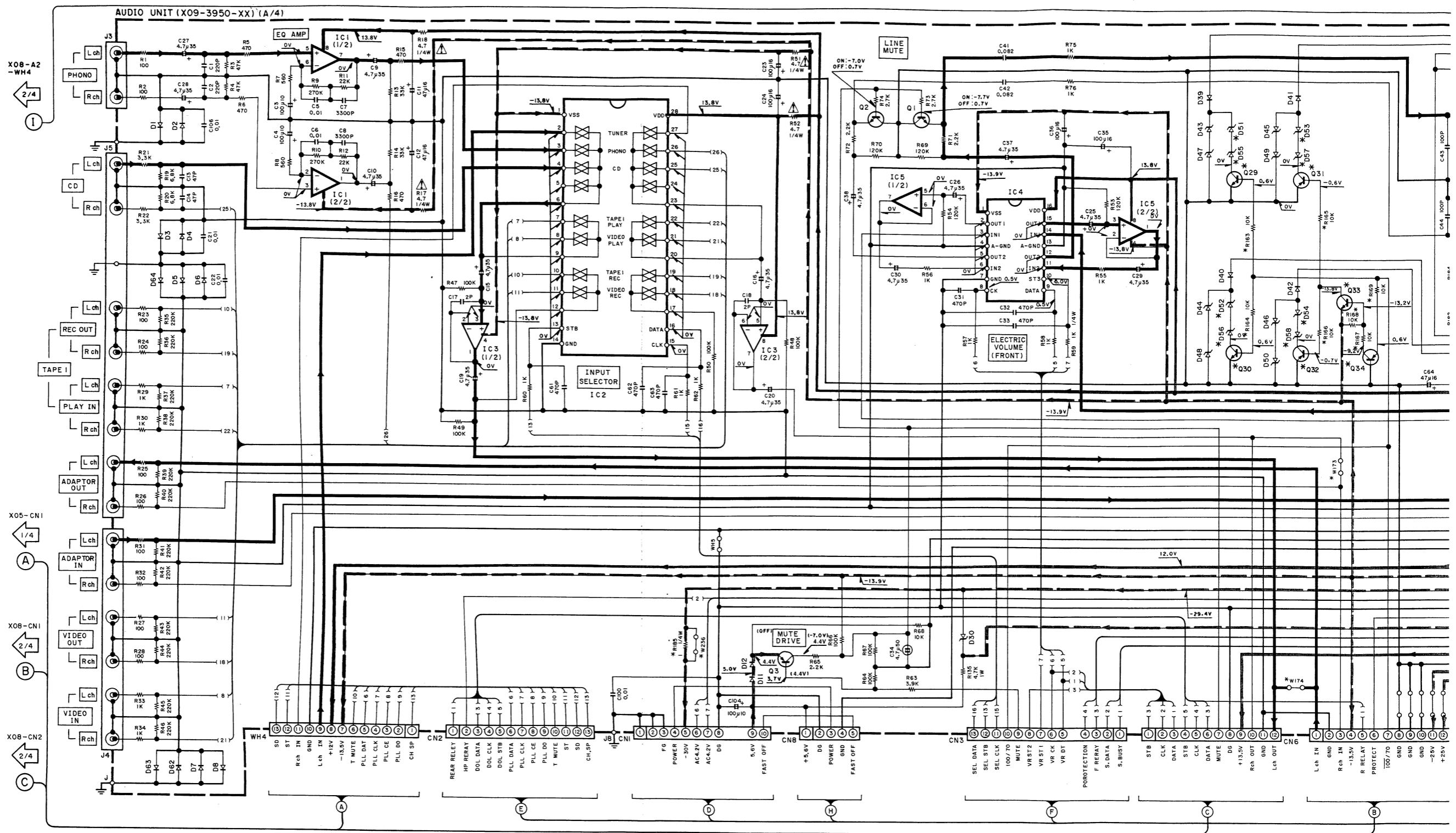
LC7218
LV1011

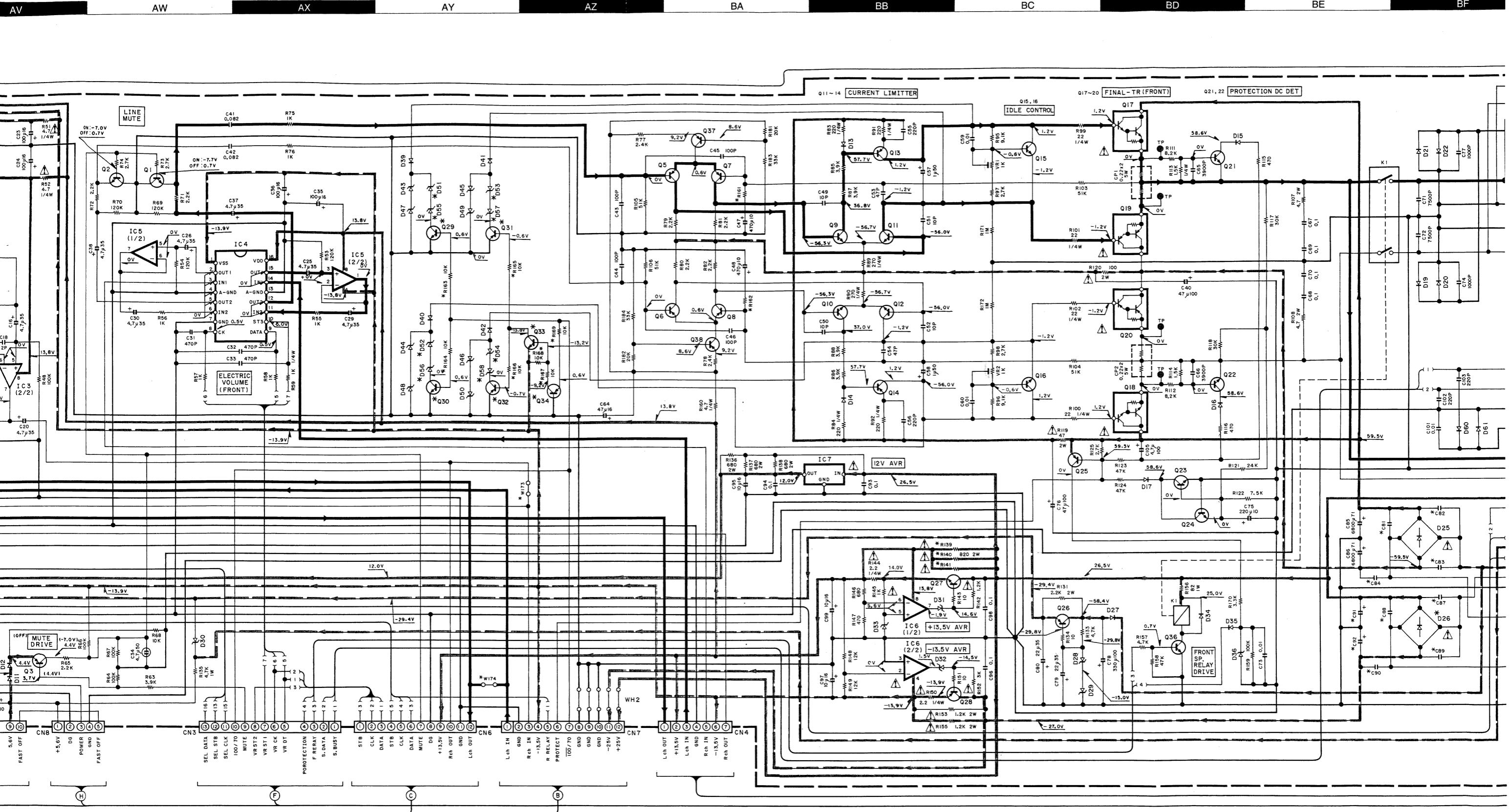


Y05-3150-00

KR-596/796/896

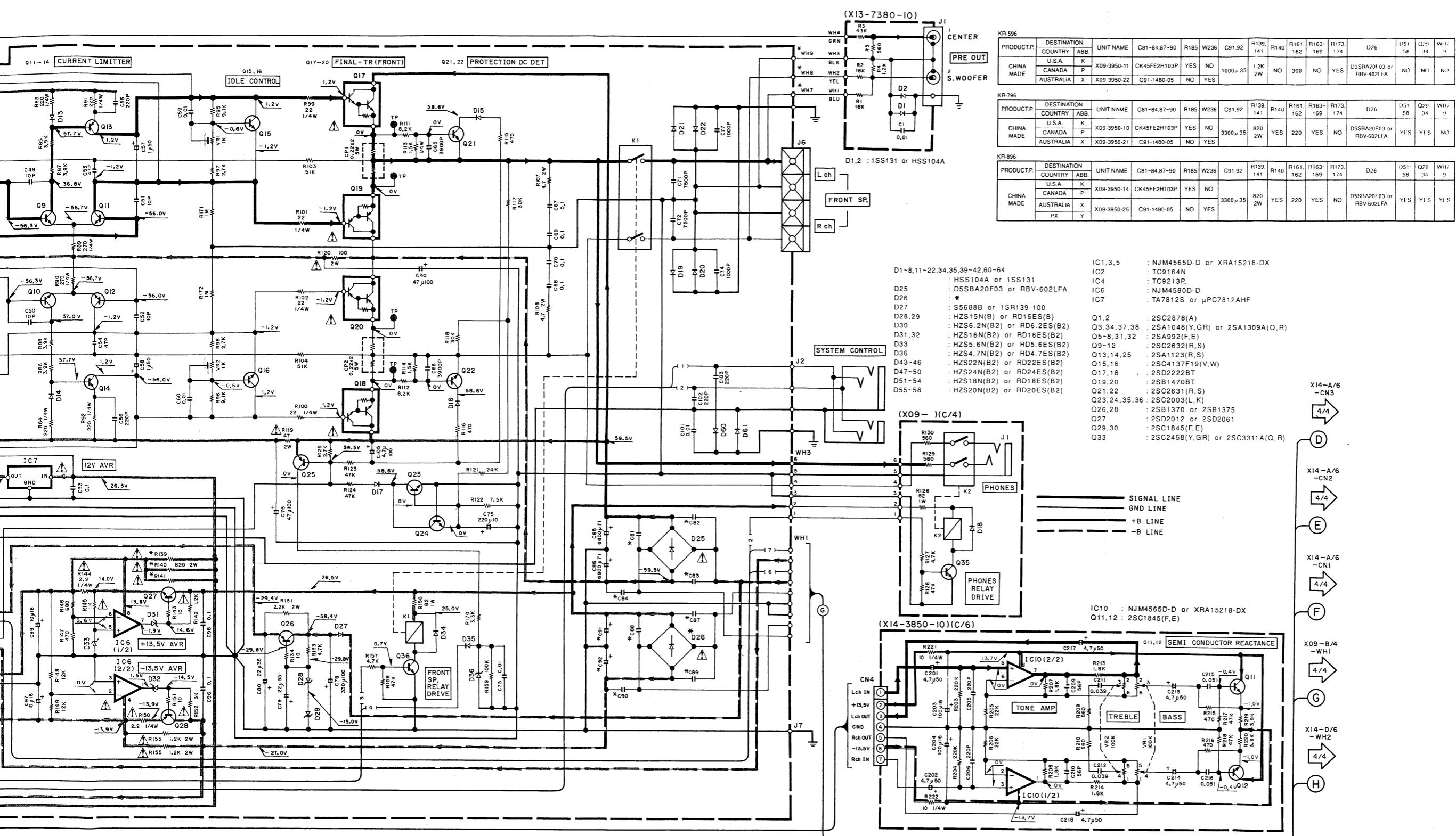
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The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

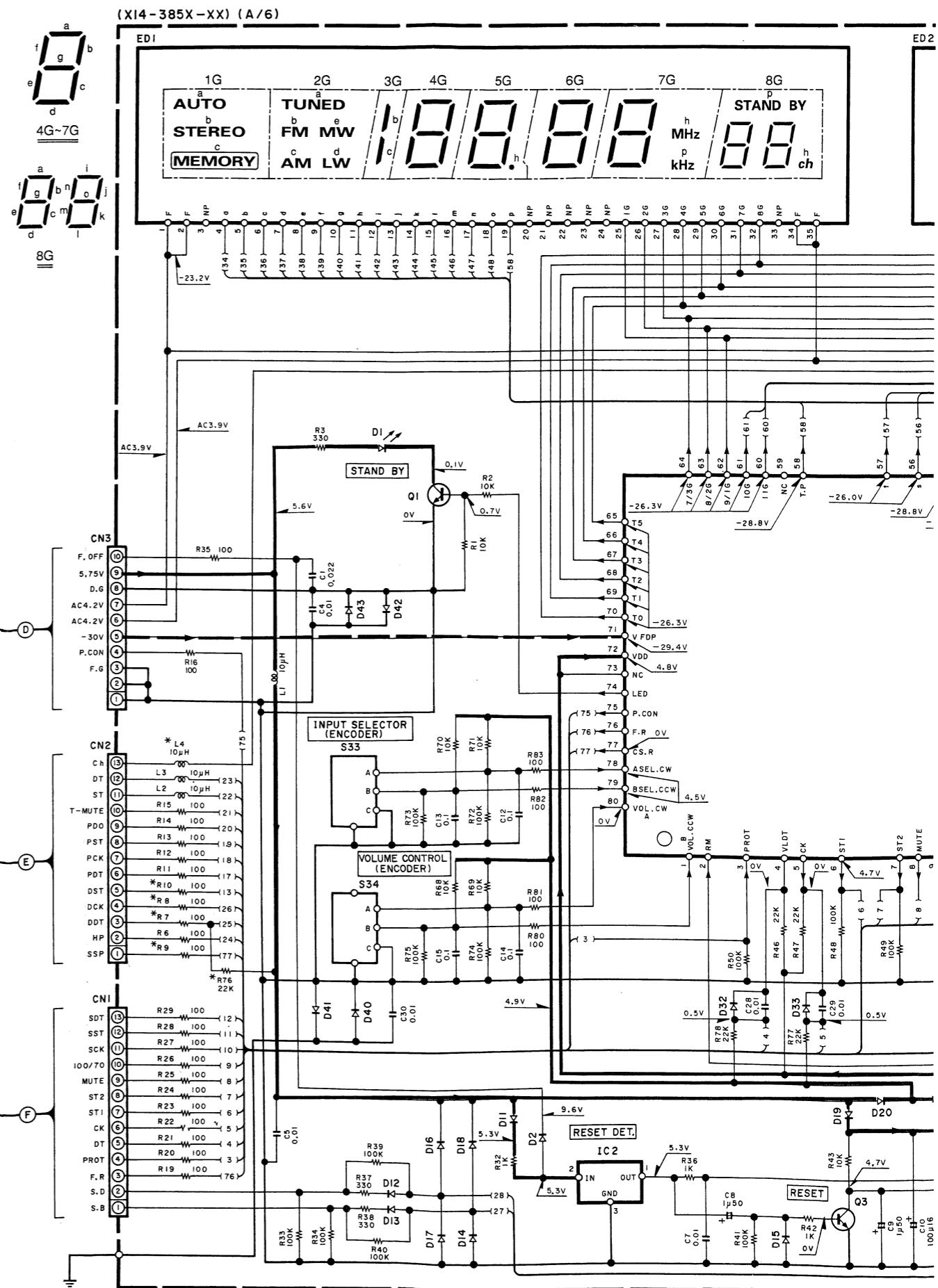
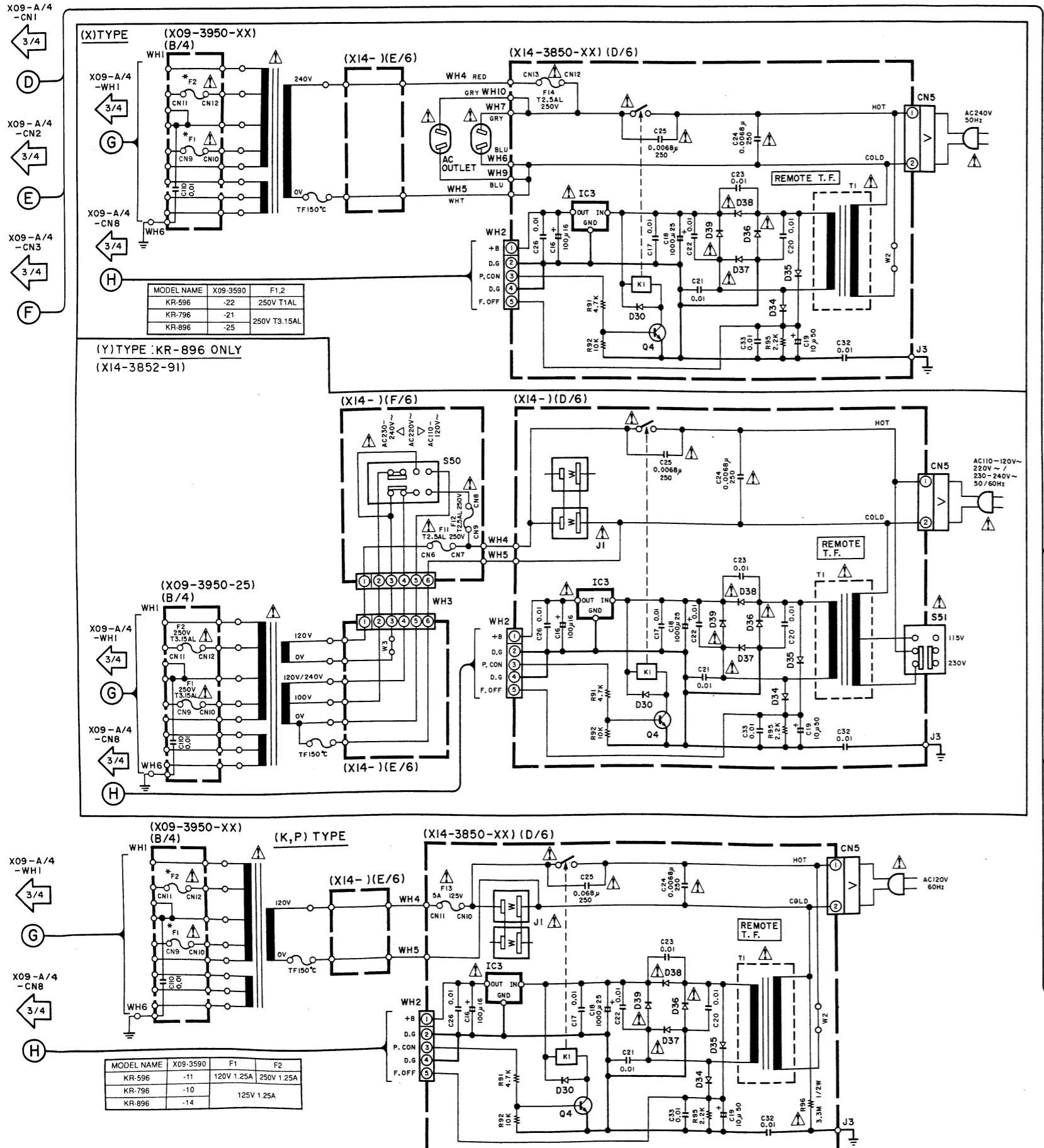


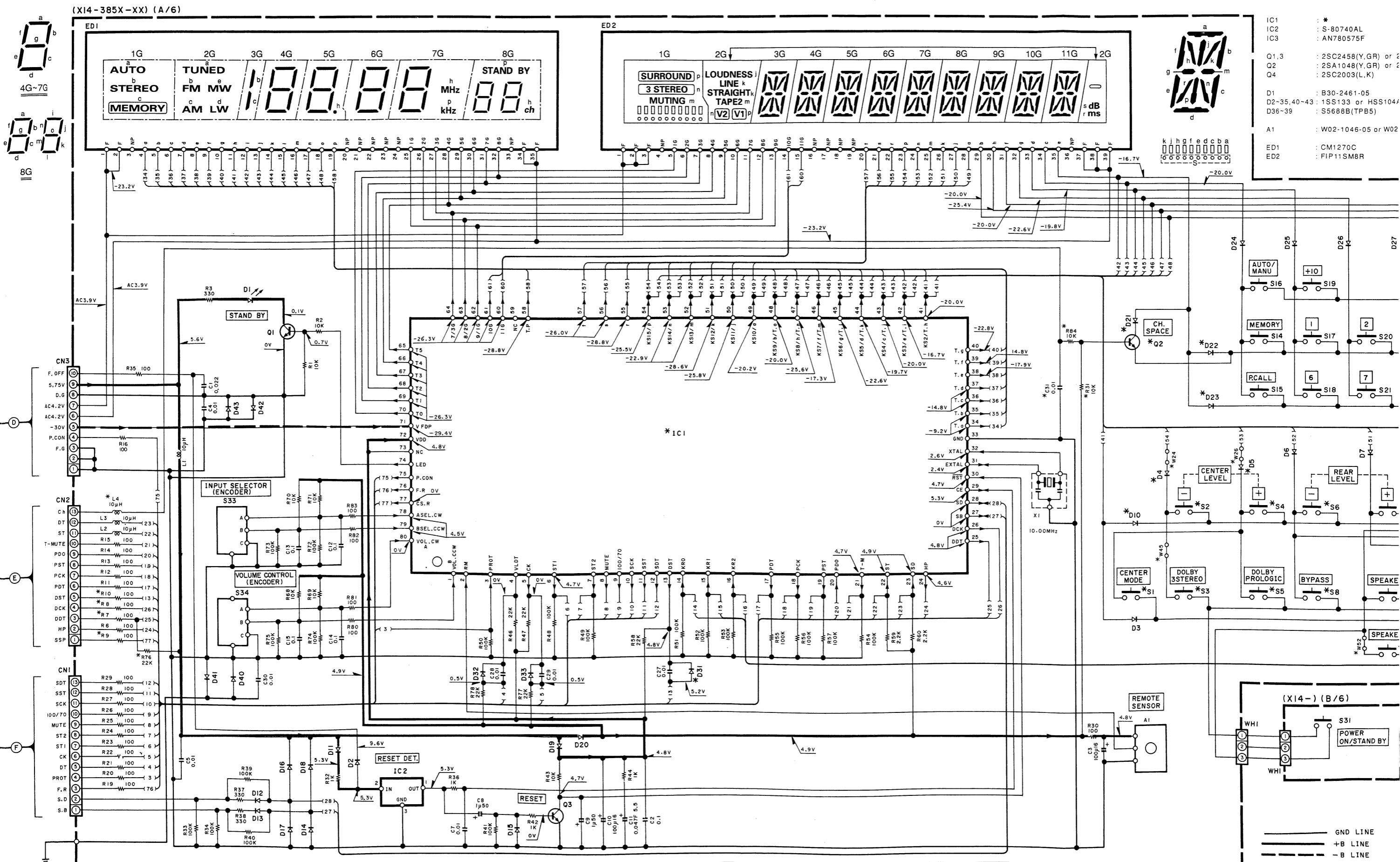
Range is an actual reading measured with a high impedance type cassette loaded at playback mode. The measurement value may vary on the measuring instruments used or on the product. Bias circuit measured while in the record mode.

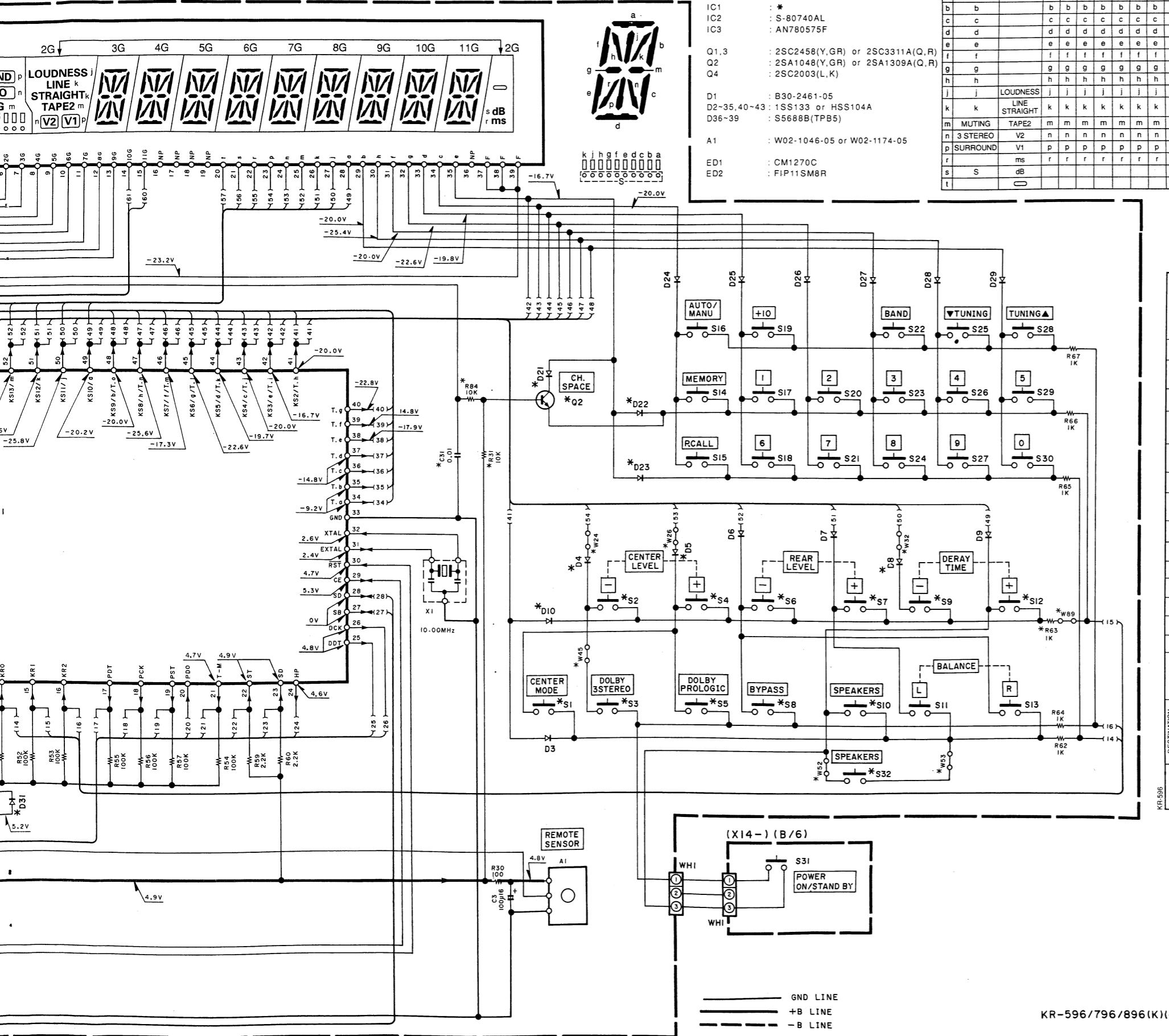
KR-596/796/896 (K) (3/4)

Y05-3150-00

KR-596/796/896







CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with a cassette loaded at playback mode. The measurement value may vary depending on the measuring instruments used or on the product. Bias circuit DC voltage is measured while in the record mode.

PRODUCT	DESTINATION	COUNTRY ABB	UNIT NAME	Q2	D21	D22	D23	L4	C31	R31	D4-5,8	10,31	C27	R7-10,	W24-26,	W52	S1-10,	S32	IC1
CHINA MADE	U.S.A.	K	X14-3850-11	NO	NO	NO	NO	NO	YES	NO	NO	CXPB2320-16Q or CXPB2322-15Q							
CHINA MADE	CANADA	P	X14-3850-71	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO	NO
CHINA MADE	AUSTRALIA	X	X14-3852-81	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
CHINA MADE	PX	Y	X14-3852-81	YES	YES	NO	YES	YES	YES	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

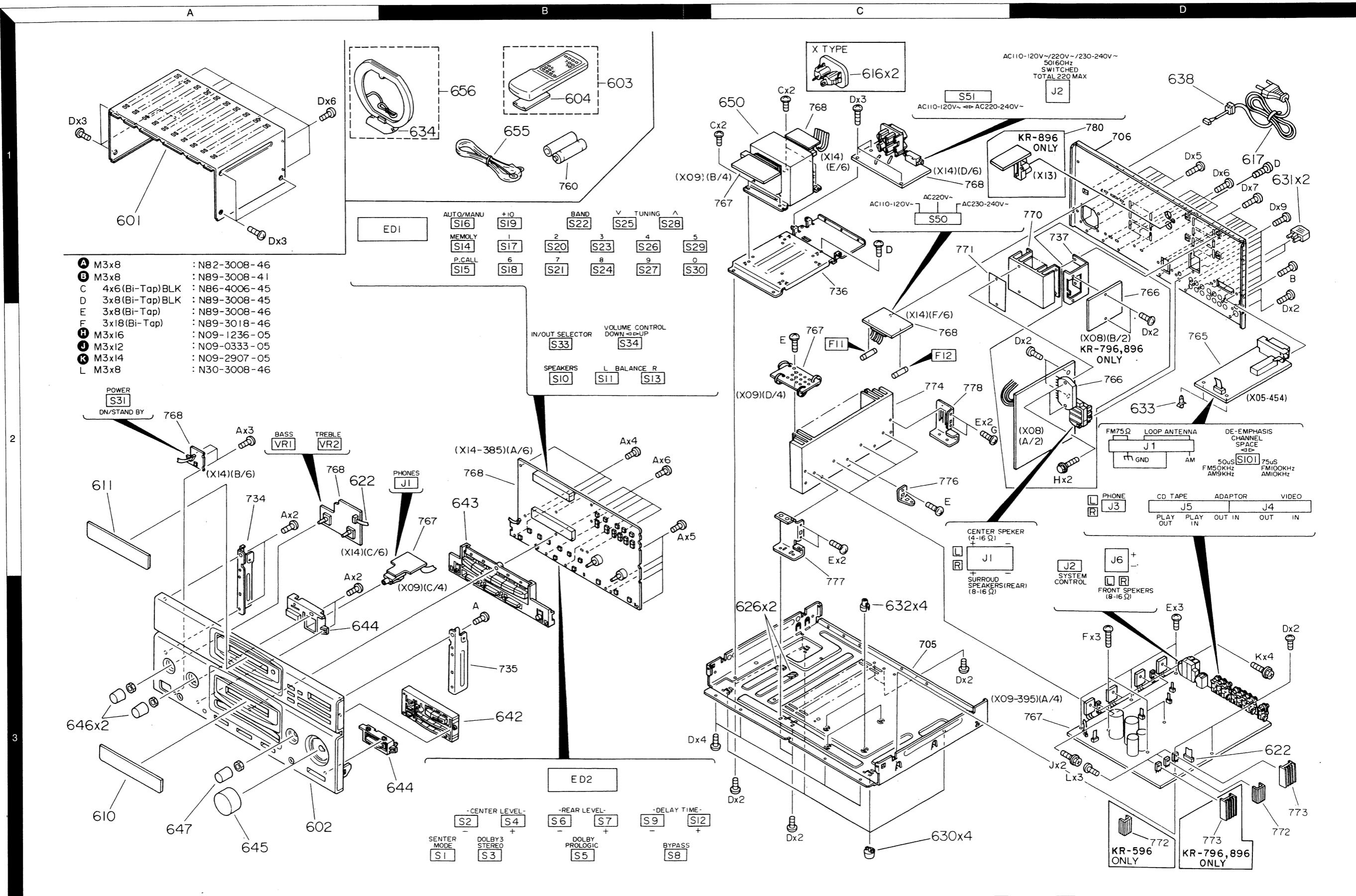
KR-796/896

KR-596/796/896(K)(4/4)

Y05-3150-00

KR-596/796/896
KENWOOD

KR-596/796/896 KR-596/796/896 EXPLODED VIEW



KR-596/796/896

KR-596/796/896

PARTS LIST

PARTS LIST

PARTS LIST

29

*New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

①

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
KR-596/796/896						
601	1A	*	A01-3107-21	METALLIC CABINET		
602	3A	*	A60-0867-01	PANEL (796)		
602	3A	*	A60-0868-01	PANEL (596)		
602	3A	*	A60-0869-01	PANEL (896)		
603	1B		A70-0974-05	REMOTE CONTROLLER ASSY (7,8)		
603	1B		A70-0975-05	REMOTE CONTROLLER ASSY (596)		
604	1B		A09-0170-08	BATTERY COVER		
610	3A		B03-2942-03	DRESSING PLATE		
611	2A		B03-2895-23	DRESSING PLATE	KY	
			B46-0092-43	WARRANTY CARD	X	
			B46-0096-53	WARRANTY CARD	P	
			B46-0121-33	WARRANTY CARD		
			B58-0964-13	CAUTION CARD (UL)	KY	
			B58-0965-13	CAUTION CARD (T,X TYPE PL)	X	
			B58-0967-03	CAUTION CARD (P TYPE PL)	P	
			B58-0968-04	CAUTION CARD (896)	Y	
			B58-1505-03	CAUTION CARD	K	
			B59-1104-00	SERVICE DIRECTORY (896)	Y	
		*	B60-2531-00	INSTRUCTION MANUAL (ENGLISH)	PX	
		*	B60-2532-00	INSTRUCTION MANUAL (FRENCH)	P	
△ 616	1C	*	E03-0326-05	AC OUTLET	X	
△ 617	1D	*	E30-2787-05	AC POWER CORD	KP	
△ 617	1D	*	E30-2789-05	AC POWER CORD (896)	Y	
△ 617	1D	*	E30-2790-05	AC POWER CORD	X	
622	2A,3D		E35-0765-05	FLAT CABLE		
			G11-2221-04	CUSHION		
			H13-0188-04	CARTON BOARD	X	
			H10-5698-02	POLYSTYRENE FOAMED FIXTURE		
			H10-5699-02	POLYSTYRENE FOAMED FIXTURE		
			H25-0232-04	PROTECTION BAG (235X350X0.03)		
			H25-1517-04	PROTECTION BAG		
		*	H50-1786-04	ITEM CARTON CASE (796)		
		*	H50-1787-04	ITEM CARTON CASE (596)		
		*	H50-1788-04	ITEM CARTON CASE (896)		
630	3C		J02-0366-15	FOOT		
631	1D		J12-0091-15	PIN		
632	3G		J19-3657-14	UNIT HOLDER		
633	2D		J19-3642-05	UNIT HOLDER		
634	3C		J19-3645-05	LOOP ANTENNA STAND		
△ 638	1D	*	J42-0083-05	POWER CORD BUSHING		
		*	J61-0098-05	WIRE BAND		
642	3B		K29-5666-02	KNOB		
643	2B		K29-5862-12	KNOB	(596)	
643	2B		K29-6089-02	KNOB	(796)(896)	
644	3B		K29-5863-23	KNOB		
645	3A		K29-5864-04	KNOB		
646	3A		K29-5865-14	KNOB		
647	3A		K29-5866-04	KNOB		
△ 650	1C		L07-0880-15	POWER TRANSFORMER(796(896)	KP	
△ 650	1C		L07-0881-15	POWER TRANSFORMER (896)	Y	

L : Scandinavia K : USA P : Canada (596) : KR-596 (796) : KR-796

Y : PX(Far East, Hawaii) T : Europe E : Europe (896) : KR-896

Y : AAFES(Europe) X : Australia M : Other Areas

△ indicates safety critical components.

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②

Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
△ 650	1C		L07-0882-15	POWER TRANSFORMER (796)(896)	X	
△ 650	1C		L07-0883-25	POWER TRANSFORMER (596)	K	
△ 650	1C		L07-0885-15	POWER TRANSFORMER (596)	X	
△ 650	1C		L07-0970-15	POWER TRANSFORMER (596)	P	
655	1B		T90-0801-05	LEAD WIRE ANTENNA		
656	1B		T90-0195-05	LOOP ANTENNA		
TUNER UNIT : X05-4540-XX						
C1,2			CK73FB1H103K	CHIP C	0.010UF	K
C4			CE04LW1A470M	ELECTRO	47UF	10WV
C5			CK73FB1H103K	CHIP C	0.010UF	K
C8			CK73FB1H103K	CHIP C	0.010UF	K
C10			CK73FB1H102K	CHIP C	1000PF	K
C11			CE04LW1H4R7M	ELECTRO	4.7UF	50WV
C13			CE04LW1H010M	ELECTRO	1.0UF	50WV
C14			CE04LW1H2R2M	ELECTRO	2.2UF	50WV
C21,22			CQ92FM1H163J	MYLAR	0.016UF	J
C21,22			CQ92FM1H243J	MYLAR	0.024UF	J
C23			CE04LW1H010M	ELECTRO	1.0UF	50WV
C24			CE04LW1H3R3M	ELECTRO	3.3UF	50WV
C25			CE04LW1V100M	ELECTRO	10UF	35WV
C27			CK73FB1E473K	CHIP C	0.047UF	K
C28			CE04LW1V100M	ELECTRO	10UF	35WV
C31			CE04LW1A470M	ELECTRO	47UF	10WV
C32			CK73FB1H103K	CHIP C	0.010UF	K
C33			CC73FC1H270J	CHIP C	27PF	J
C34			CC73FC1H220J	CHIP C	22PF	J
C35-38			CK73FB1H471K	CHIP C	470PF	K
C39			CE04LW1C470M	ELECTRO	47UF	16WV
C40			CK73FB1H223K	CHIP C	0.022UF	K
C41			CE04LW1H010M	ELECTRO	1.0UF	50WV
C42,43			CK73FB1H103K	CHIP C	0.010UF	K
C50			C91-0769-05	CERAMIC	0.010UF	K
C51			CE04LW1H010M	ELECTRO	1.0UF	50WV
C52			CE04LW1C470M	ELECTRO	47UF	16WV
C57			CC73FS1LH220J	CHIP C	22PF	J
C65			CE04LW1H010M	ELECTRO	1.0UF	50WV
C66			CK73FB1H102K	CHIP C	1000PF	K
C71			CE04LW1V100M	ELECTRO	10UF	35WV
C72			CE04LW1C470M	ELECTRO	47UF	16WV
C103-106			CE04LW1H474M	ELECTRO	0.47UF	50WV
C107			CK73FB1E473K	CHIP C	0.047UF	K
C112			CC73FS1LH101J	CHIP C	100PF	J
C114			CK73FB1H681K	CHIP C	680PF	K
C115,116			CC73FS1LH101J	CHIP C	100PF	J
C121,122			CE04LW1C470M	ELECTRO	47UF	16WV
C135,136			CQ92FM1H682J	MYLAR	6800PF	J
C182			CC73FS1LH150J	CHIP C	15PF	J
CN1		2D	E40-4234-05	FLAT CABLE CONNECTOR		
J1			E70-0051-05	LOCK TERMINAL BOARD		
J2			F10-0920-14	SHIELDING PLATE		
CF1,2			L72-0531-05	CERAMIC FILTER		
CF3			L72-0574-05	CERAMIC FILTER		
L7			L30-0467-05	AM IFT		

L : Scandinavia K : USA P : Canada

Y : PX(Far East, Hawaii) T : Europe E : Europe

Y : AAFES(Europe) X : Australia M : Other Areas

△ indicates safety critical components.

L : Scandinavia K : USA P : Canada

Y : PX(Far East, Hawaii) T : Europe E : Europe

Y : AAFES(Europe) X : Australia M : Other Areas

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Ref. No	Add- ress	New Parts	

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Ref. No	Add- ress	New Parts	Parts No.	Description			Desti- nation	Re- marks
C174			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C175			CE04LW1V100M	ELECTRO	10UF	35WV		
C176			CF92FV1H105J	MF-C	1.0UF	J		
C177			CF92FV1H333J	MF-C	0.033UF	J		
C178			CF92FV1H152J	MF-C	1500PF	J		
C179			CF92FV1H333J	MF-C	0.033UF	J		
C201			CE04LW1V100M	ELECTRO	10UF	35WV		
C203			CF92FV1H104J	MF-C	0.10UF	J		
C204			CE04LW1C101M	ELECTRO	100UF	16WV		
C205,206			CE04LW1E470M	ELECTRO	47UF	25WV		
C207,208			CE04LW1C221M	ELECTRO	220UF	16WV		
C211,212			CE04LW1H331M	ELECTRO	330UF	50WV		
C213,214			CE04LW1C221M	ELECTRO	220UF	16WV		
C215,216			CF92FV1H104J	MF-C	0.10UF	J		
C251			C91-0757-05	CERAMIC	1000PF	K		
C252,253			C91-0749-05	CERAMIC	220PF	K		
C254			C91-0753-05	CHIP C	470PF	K		
C255			C91-0757-05	CERAMIC	1000PF	K		
C256			C91-0753-05	CHIP C	470PF	K		
C257,258			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C259			CE04HW1A101M	NP-ELEC	100UF	10WV		
C260			CK45FB1H561K	CERAMIC	560PF	K		
CN1,2			E40-4746-05	SOCKET FOR PIN ASSY				
J1			E70-0046-05	LOCK TERMINAL BOARD				
X1			L78-0290-05	RESONATOR	(8MHZ)			
CP1			R90-0826-05	MULTI-COMP	0.22X2	J 5W		
R131,132			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W		
R206,207			RS14KB3A101J	FL-PROOF RS	100	J 1W		
R265			RS14KB3A181J	FL-PROOF RS	180	J 1W		
R267			RN14BK2C3902F	RN	39.0K	F 1/6W		
K1			S76-0036-05	MAGNETIC RELAY				
D201			HZS10N(B)	ZENER DIODE				
D201			RD10ES(B)	ZENER DIODE				
D251-259			HSS104A	DIODE				
D251-259			ISS131	DIODE				
IC1			LA2785	IC(DOLBY PRO LOGIC DECODER IC)				
IC2			LV1011	DI BI-POLAR IC				
IC3			NJM4565L-D	ANALOGUE IC				
IC4			TC9213P	IC(2CH ELECTRONIC VOLUME)				
IC5			NJM4565L-D	ANALOGUE IC				
IC6			TC9215P	IC(ANALOG SWITCH X 6)				
IC7			STK401-051	IC(30W AF POWER AMP)				
Q1,2			2SC2878(B)	TRANSISTOR				
Q101-103			2SC2003(L,K)	TRANSISTOR				
Q104			2SC1845(F,E)	TRANSISTOR				
Q201			2SD2012	TRANSISTOR				
Q201			2SD2061(E,F)	TRANSISTOR				
AUDIO UNIT : X09-3950-XX								
C1,2			CC45FSL1H221J	CERAMIC	220PF	J		
C3,4			CE04LW1A101M	ELECTRO	100UF	10WV		
C5,6			CC92FM1H103J	MYLAR	0.010UF	J		
			CC92FM1H103J	MYLAR	3300PF	J		

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C9,10			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C11,12			CE04LW1C470M	ELECTRO	47UF	16WV		
C13,14			C91-0737-05	CERAMIC	47PF	J		
C15,16			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C17,18			CC45FSL1H020C	CERAMIC	2.0PF	C		
C19,20			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C21,22			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C23,24			CE04LW1C101M	ELECTRO	100UF	16WV		
C25-30			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C31-33			C91-0753-05	CHIP C	470PF	K		
C34			CE04HW1H4R7M	NP-ELEC	4.7UF	50WV		
C35,36			CE04LW1C101M	ELECTRO	100UF	16WV		
C37,38			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		
C40			CE04LW2A470M	ELECTRO	47UF	100WV		
C41,42			CQ92FM1H823J	MYLAR	0.082UF	J		
C43-46			CC45FSL1H101J	CERAMIC	100PF	J		
C47,48			CE04LW1A471M	ELECTRO	470UF	10WV		
C49-52			CC45FSL1H100D	CERAMIC	10PF	D		
C53,54			CC45FSL1H470J	CERAMIC	47PF	J		
C55,56			CC45FSL1H221J	CERAMIC	220PF	J		
C57,58			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C59,60			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C61			CK45FB1H471K	CERAMIC	470PF	K		
C62,63			C91-0753-05	CHIP C	470PF	K		
C64			CE04LW1C470M	ELECTRO	47UF	16WV		
C65,66			CQ92FM1H392J	MYLAR	3900PF	J		
C67-70			CF92FV1H104J	MF-C	0.10UF	J		
C71,72			CQ92FM1H752J	MYLAR	7500PF	J		
C73			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C74			CK45FB1H102K	CERAMIC	1000PF	K		
C75			CE04LW1A221M	ELECTRO	220UF	10WV		
C76			CE04LW2A470M	ELECTRO	47UF	100WV		
C77			CK45FB1H102K	CERAMIC	1000PF	K		
C78			CE04LW2A331M	ELECTRO	330UF	100WV		
C79,80			CE04LW1V220M	ELECTRO	22UF	35WV		
C81-84			CK45FE2H103P	CERAMIC	0.010UF	P		
C81-84			C91-1480-05	MP	0.22UF	250WV	KP	
C85,86			C90-3579-05	ELECTRO	4700UF	71WV	YX	
C87-90			CK45FE2H103P	CERAMIC	0.010UF	P		
C87-90			C91-1480-05	MP	0.22UF	250WV	KP	
C91,92			CE04LW1V102M	ELECTRO	1000UF	35WV		
C91,92			CE04LW1V332M	ELECTRO	3300UF	35WV		
C93,94			CQ92FM1H104J	MYLAR	0.10UF	J		
C95			CE04LW1C100M	ELECTRO	10UF	16WV		
C96			CQ92FM1H104J	MYLAR	0.10UF	J		
C97			CE04LW1C100M	ELECTRO	10UF	16WV		
C98			CQ92FM1H104J	MYLAR	0.10UF	J		
C99			CE04LW1C100M	ELECTRO	10UF	16WV		
C100,101			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C102,103			CC45FSL1H221J	CERAMIC	220PF	J		
C104			CE04LW1A101M	ELECTRO	100UF	10WV		
C105			CE04LW2A44R7M	ELECTRO	4.7UF	100WV		
C106			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C110			CK45FF1H103Z	CERAMIC	0.010UF	Z		

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KR-596/796/896

PARTS LIST

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Ref. No	Add- ress	New Parts	Parts No.	Description	Desti- nation	Re- marks
CN1			E40-4615-05	SOCKET FOR PIN ASSY		
CN2,3			E40-4590-05	SOCKET FOR PIN ASSY		
CN4			E40-4147-05	FLAT CABLE CONNECTOR		
CN6,7			E40-4747-05	PIN ASSY		
CN8			E40-4295-05	FLAT CABLE CONNECTOR		
J1			E11-0207-05	PHONE JACK (3P)		
J2			E11-0188-05	MINIATURE PHONE JACK(2P)		
J3			E63-0133-15	PHONO JACK		
J4			E63-0139-15	PHONO JACK		
J5			E63-0141-15	PHONO JACK		
J6			E70-0053-05	LOCK TERMINAL BOARD		
△ F1,2			F05-3121-05	FUSE (SEMKO) (250V T3.15AL)	YX	
△ F1,2			F05-4028-05	FUSE (UL) (125V 4A)	KP	
△ F1,2			F06-1022-05		X	
△ F1,2			F06-1222-05		KP	
CN9-12			J13-0075-05	FUSE CLIP		
CP1,2			R90-0826-05	MULTI-COMP	0.22X2	J 5W
△ R17,18			RD14NB2E4R7J	RD	4.7	J 1/4W
△ R51,52			RD14NB2E4R7J	RD	4.7	J 1/4W
R83,84			RD14NB2E221J	RD	220	J 1/4W
R89,90			RD14NB2E271J	RD	270	J 1/4W
R91,92			RD14NB2E221J	RD	220	J 1/4W
R99-102			RD14NB2E220J	RD	22	J 1/4W
R107,108			RS14KB3D4R7J	FL-PROOF RS	4.7	J 2W
△ R119			RS14KB3D470J	FL-PROOF RS	47	J 2W
△ R120			RS14KB3D101J	FL-PROOF RS	100	J 2W
R126			RS14KB3A820J	FL-PROOF RS	82	J 1W
R129,130			RS14KB3D561J	FL-PROOF RS	560	J 2W
R131			RS14KB3D222J	FL-PROOF RS	2.2K	J 2W
R135			RS14KB3A472J	FL-PROOF RS	4.7K	J 1W
R136-138			RS14KB3D681J	FL-PROOF RS	680	J 2W
R139			RS14KB3D122J	FL-PROOF RS	1.2K	J 2W
△ R139-141			RS14KB3D821J	FL-PROOF RS	820	J 2W
△ R144			RD14NB2E2R2J	RD	2.2	J 1/4W
△ R150			RD14NB2E2R2J	RD	2.2	J 1/4W
△ R153			RS14KB3D122J	FL-PROOF RS	1.2K	J 2W
△ R155			RS14KB3D122J	FL-PROOF RS	1.2K	J 2W
R156			RS14KB3A820J	FL-PROOF RS	82	J 1W
R160			RD14NB2E4R7J	RD	4.7	J 1/4W
R185			RD14GB2E1R0J	FL-PROOF RD	1.0	J 1/4W
VR1,2			R12-1616-05	TRIMMING POT.(1K)		
K1			S51-2078-05	MAGNETIC RELAY		
K2			S76-0005-05	MAGNETIC RELAY		
D1-8			HSS104A	DIODE		
D1-8			ISS131	DIODE		
D11-22			HSS104A	DIODE		
D11-22			ISS131	DIODE		
D25,26			D5SBA20F03	DIODE		
D25,26			RBV-602LFA	DIODE		
D26			D3SBA20F03	DIODE		
D26			RBV-402LFA	DIODE		
D27			S5688B	DIODE		
D27			1SR139-100	DIODE		

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D28,29			HZS15N(B)	ZENER DIODE		
D28,29			RD15ES(B)	ZENER DIODE		
D30			HZS6.2N(B2)	ZENER DIODE		
D30			RD6.2ES(B2)	ZENER DIODE		
D31,32			HZS16N(B2)	ZENER DIODE		
D31,32			RD16ES(B2)	ZENER DIODE		
D33			HZS5.6N(B2)	ZENER DIODE		
D33			RD5.6ES(B2)	ZENER DIODE		
D34,35			HSS104A	DIODE		
D34,35			1SS131	DIODE		
D36			HZS4.7N(B2)	ZENER DIODE		
D36			RD4.7ES(B2)	ZENER DIODE		
D39-42			HSS104A	DIODE		
D39-42			1SS131	DIODE		
D43-46			HZS22N(B2)	ZENER DIODE		
D43-46			RD22ES(B2)	ZENER DIODE		
D47-50			HZS24N(B2)	ZENER DIODE		
D51-54			RD24ES(B2)	ZENER DIODE		
D51-54			HZS18N(B2)	ZENER DIODE		
D51-54			RD18ES(B2)	ZENER DIODE		
D55-58			HZS20N(B2)	ZENER DIODE		
D55-58			RD20ES(B2)	ZENER DIODE		
D60-64			HSS104A	DIODE		
D60-64			1SS131	DIODE		
IC1			NJM4565D-D	IC(OP AMP X2)		
IC1			XRA15218-DX	IC(OP AMP X2)		
IC2			TC9164N	IC(16CH BILATERAL SELECTOR SW)		
IC3			NJM4565D-D	IC(OP AMP X2)		
IC3			XRA15218-DX	IC(OP AMP X2)		
IC4			TC9121P	IC(2CH ELECTRONIC VOLUME)		
IC5			NJM4565D-D	IC(OP AMP X2)		
IC5			XRA15218-DX	IC(OP AMP X2)		
IC6			NJM4580D-D	IC(OP AMP X2)		
IC7			T7812S	IC(VOLTAGE REGULATOR/ +12V)		
IC7			UPC7812AHF	IC(VOLTAGE REGULATOR/ +12V)		
Q1,2			2SC2878(B)	TRANSISTOR		
Q3			2SA1048(Y,GR)	TRANSISTOR		
Q3			2SA1309A(Q,R)	TRANSISTOR		
Q5-8			2SA992(F,E)	TRANSISTOR		
Q9-12			2SC2632(R,S)	TRANSISTOR		
Q13,14			2SA1123(R,S)	TRANSISTOR		
Q15,16			2SC4137F19(V,W)	TRANSISTOR		
Q17,18			2SD2222BT	TRANSISTOR		
Q19,20			2SB1470BT	TRANSISTOR		
Q21,22			2SC2631(R,S)	TRANSISTOR		
Q23,24			2SC2003(L,K)	TRANSISTOR		
Q25			2SA1123(R,S)	TRANSISTOR		
Q26			2SB1370	TRANSISTOR		
Q26			2SB1375	TRANSISTOR		
Q27			2SD2012	TRANSISTOR		
Q27			2SD2061	TRANSISTOR		
Q28			2SB1370	TRANSISTOR		
Q28			2SB1375	TRANSISTOR		
Q29,30			2SC1845(F,E)	TRANSISTOR		
Q31,32			2SA992(F,E)	TRANSISTOR		

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Q33			2SC2458(Y,GR)	TRANSISTOR		
Q33			2SC3311A(Q,R)	TRANSISTOR		
Q34			2SA1048(Y,GR)	TRANSISTOR		
Q34			2SA1309A(Q,R)	TRANSISTOR		
Q35,36			2SC2003(L,K)	TRANSISTOR		
Q37,38			2SA1048(Y,GR)	TRANSISTOR		
Q37,38			2SA1309A(Q,R)	TRANSISTOR		

PRE OUT UNIT : X13-7380-10 (KR-896 ONLY)

C1		CK45FF1H103Z	CERAMIC	0.010UF Z		
J1		E63-0135-15		PHONO JACK		
D1,2		HSS104A	DIODE			
D1,2		1SS131	DIODE			

DISPLAY UNIT : X14-3850-XX

D1		B30-2461-05	LED(RED,5)			
C1		CK45FF1H223Z	CERAMIC	0.022UF Z		
C2		CF92FV1H104J	MF-C	0.10UF J		
C3		CE04LW1C101M	ELECTRO	100UF 16WV		
C4,5		C91-0769-05	CERAMIC	0.010UF K		
C7		CK45FF1H103Z	CERAMIC	0.010UF Z		
C8,9		CE04LW1H010M	ELECTRO	1.0UF 50WV		
C10		CE04LW1C101M	ELECTRO	100UF 16WV		
C11		C90-3566-05	ELECTRO	0.047UF 5.5WV		
C12-15		CF92FV1H104J	MF-C	0.10UF J		
C16		CE04LW1C101M	ELECTRO	100UF 16WV		
C17		CK45FF1H103Z	CERAMIC	0.010UF Z		
C18		CE04LW1E102M	ELECTRO	1000UF 25WV		
C19		CE04LW1H100M	ELECTRO	10UF 50WV		
C20-23		CK45FF1H103Z	CERAMIC	0.010UF Z		
C24,25		C91-1488-05	MF	6800PF 250VAC		
C26		CK45FF1H103Z	CERAMIC	0.010UF Z		
C27-30		C91-0769-05	CERAMIC	0.010UF K		
C31-33		CK45FF1H103Z	CERAMIC	0.010UF Z	Y	KPX
C32,33		CK45FF1H103Z	CERAMIC	0.010UF Z		
C201,202		CE04LW1H4R7M	ELECTRO	4.7UF 50WV		
C203,204		CE04LW1C101M	ELECTRO	100UF 16WV		
C205,206		CC45FSL1H221J	CERAMIC	220PF J		
C209,210		CC45FSL1H560J	CERAMIC	56PF J		
C211,212		CF92FV1H393J	MF-C	0.039UF J		
C213,214		CE04LW1H4R7M	ELECTRO	4.7UF 50WV		
C215,216		CF92FV1H513J	MF-C	0.051UF J		
C217,218		CE04LW1H4R7M	ELECTRO	4.7UF 50WV		
CN1,2		E40-4588-05	PIN ASSY			
CN3		E40-4612-05	PIN ASSY			
CN4		E40-4187-05	FLAT CABLE CONNECTOR			
CN5		E40-4245-05	PIN ASSY			
J1		E03-0148-05	AC OUTLET		KPY	
F11,12		F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)	Y	
F13		F04-5022-05	FUSE (UL)	(125V 5A UL)	KP	
F14		F05-2525-05	FUSE (SEMKO)	(250V T2.5AL)	X	
CN6-9		J13-0075-05	FUSE CLIP		Y	
CN10,11		J13-0075-05	FUSE CLIP		KP	

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CN12,13			J13-0075-05	FUSE CLIP	X	
L1-3			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	KPX	
L1-4			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)	Y	
T1			L07-0864-05	POWER TRANSFORMER	KP	
T1			L07-0865-05	POWER TRANSFORMER	Y	
X1			L07-0866-05	POWER TRANSFORMER	X	
R96		R221,222	L78-0294-05	RESONATOR (10.000M)		
VR1,2			R92-1769-05	CARBON 3.3M J	1/2W	KP
			RD14NB2E100J	RD 10	1/4W	
			R10-5078-05	POTENTIOMETER(100K,5B)		
K1			S76-0009-05	MAGNETIC RELAY		
S1-32			S40-1064-05	PUSH SWITCH	Y	
S50			S31-2322-05	SLIDE SWITCH	Y	
S51			S62-0001-05	SLIDE SWITCH	Y	
S33			T99-0547-05	SPEED DETECTOR		
S34			T99-0548-05	SPEED DETECTOR		
D2-20			HSS104A	DIODE	KPX	
D2-20			1SS131	DIODE	KPX	
D2-21			HSS104A	DIODE	Y	
D2-21			1SS131	DIODE	Y	
D22-35			HSS104A	DIODE	X	
D22-35			1SS131	DIODE	X	
D23-35			HSS104A	DIODE	Y	
D23-35			1SS131	DIODE	Y	
D24-35			HSS104A	DIODE	KP	
D24-35			1SS131	DIODE	KP	
D36-39			S5688B(TPB5)	DIODE		
D40-43			HSS104A	DIODE		
D40-43			1SS131	DIODE		
ED1			CM1270C	INDICATOR TUBE		
ED2			FIP11SM8R	INDICATOR TUBE		
IC1			CXP82320-162Q	MI-COM IC		
IC2			S-80740AL	ANALOGUE IC		
IC3			AN780575F	IC(VOLTAGE REGULATOR/+5.75V)		
IC10			NJM4565D-D	IC(OP AMP X2)		
IC10			XRA15218-DX	IC(OP AMP X2)		
Q1			2SC2458(Y,GR)	TRANSISTOR		
Q1			2SC3311A(Q,R)	TRANSISTOR		
Q2			2SA1048(Y,GR)	TRANSISTOR		
Q2			2SA1309A(Q,R)	TRANSISTOR		
Q3			2SC2458(Y,GR)	TRANSISTOR		
Q3			2SC3311A(Q,R)	TRANSISTOR		
Q4			2SC2003(L,K)	TRANSISTOR		
Q11,12			2SC1845(F,E)	TRANSISTOR		
A1			W02-1046-05	ELECTRIC CIRCUIT MODULE		
A1			W02-1174-05	ELECTRIC CIRCUIT MODULE		

L : Scandinavia

K : USA

P : Canada

Y : PX(Far East, Hawaii) T : Europe E : Europe

Y : AAFES(Europe) X : Australia M : Other Areas

▲ indicates safety critical components.

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KR-596/796/896

PARTS LIST

KR-596/796/896

SPECIFICATIONS

U.S.A. and Canada

AUDIO section

Rated power output at the STEREO operation
(KR-896/KR-796/KR-596)

100 watts per channel minimum RMS, both channels driven, at 8Ω from 40 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion. (FTC)

Power output at the Surround operation
(KR-896/KR-796 only)

Front (1 kHz, 0.9% T.H.D. at 8 Ω) 70 W + 70 W
Center (1 kHz, 0.9% T.H.D. at 8 Ω) 30 W
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) 15 W + 15 W

Total harmonic distortion (1 kHz, 8 Ω) 0.05% at 50W
Signal to noise ratio (IHF'66)

PHONO (MM) 70 dB
CD, TAPE, VIDEO 95 dB

Input sensitivity/impedance

PHONO (MM) 3.5 mV/47 kΩ
CD, TAPE, VIDEO 200 mV/47 kΩ

Tone controls

BASS ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (IHF) 13.2 dBf (1.2 μV at 75 Ω)

50 dB quieting sensitivity

STEREO 41.2 dBf (3.2 μV at 75 Ω)

Total harmonic distortion at 1 kHz

MONO 0.6%

STEREO 0.7%

Signal to noise ratio at 65 dBf (IHF)

MONO 75 dB

STEREO 68 dB

Selectivity (IHF ± 400 kHz) 50 dB

Stereo separation (IHF at 1 kHz) 40 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range 530 kHz ~ 1,700 kHz

Usable sensitivity 12 μV/(500 μV/m)

Total harmonic distortion 0.7%

Signal to noise ratio 48 dB

Selectivity 30 dB

General

Power consumption

..... 2.5 A (KR-896/KR-796) 2.3 A (KR-596)

AC outlet

SWITCHED 2: (Total 200 W 1.6 A max.)

Dimensions W: 440 mm (17-5/16")

H: 192 mm (7-9/16")

D: 300 mm (11-13/16")

16")

Weight (Net) 10.5 kg (23.1 lb)

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on the U.S.A.(K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

Other countries (KR-896)

AUDIO section

Rated power output at the STEREO operation

(EIAJ) from 40 Hz to 20 kHz,
0.09%, T.H.D. at 8 Ω 100 W + 100 W
(EIAJ) 1 kHz, 10% T.H.D. at 8 Ω 130 W + 130 W

Power output at the Surround operation

Front (1 kHz, 0.9% T.H.D. at 8 Ω) 70 W + 70 W
Center (1 kHz, 0.9% T.H.D. at 8 Ω) 30 W
Rear (1 kHz, 0.9% T.H.D. at 8 Ω) 15 W + 15 W

Total harmonic distortion (1 kHz, 8 Ω) 0.05% at 50W

Signal to noise ratio (IHF'66)
PHONO (MM) 70 dB
CD, TAPE, VIDEO 95 dB

Input sensitivity/impedance

PHONO (MM) 3.5 mV/47 kΩ
CD, TAPE, VIDEO 200 mV/47 kΩ

Tone controls

BASS ± 10 dB (at 100 Hz)
TREBLE ± 10 dB (at 10 kHz)

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

Usable sensitivity (IHF) 13.2 dBf (1.2 μV at 75 Ω)

50 dB quieting sensitivity

STEREO 41.2 dBf (3.2 μV at 75 Ω)

Total harmonic distortion at 1 kHz

MONO 0.6%

STEREO 0.7%

Signal to noise ratio at 65 dBf (IHF)

MONO 75 dB

STEREO 68 dB

Selectivity (IHF ± 400 kHz) 50 dB

Stereo separation (IHF at 1 kHz) 40 dB

Frequency response 30 Hz ~ 15 kHz, +0.5 dB, -3.0 dB

AM tuner section

Tuning frequency range

9 kHz 531 kHz ~ 1,602 kHz

10 kHz 530 kHz ~ 1,610 kHz

Usable sensitivity 12 μV (500 μV/m)

Total harmonic distortion 0.7%

Signal to noise ratio 48 dB

Selectivity 30 dB

General

Power consumption

..... 230 W

AC outlet

SWITCHED 2: (Total 200 W max.)

Dimensions W: 440 mm (17-5/16")

H: 192 mm (7-9/16")

D: 300 mm (11-13/16")

Weight (Net) 10.5 kg

KENWOOD CORPORATION

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